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AIRCRAFT ENVIRONMENTAL SYSTEMS REPAIR CAREER LADDER, AFSC'S 423--ETC(U)
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6 AIRCRAFT ENVIRONMENTAL SYSTEMS REPAIR
CAREER LADDER,

AFSC'S 42331, 42351, 42371 AND 42396,

11 3 OCT 1976

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OCCUPATIONAL SURVEY BRANCH
USAF OCCUPATIONAL MEASUREMENT CENTER
LACKLAND AFB TEXAS 78236

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PREFACE

This report presents the results of a detailed Air Force Occupational Survey of the Aircraft Environmental Systems Repair Career Ladder, AFSC's 42331, 42351, 42371 and 42396. The project was directed by USAF Program Technical Training, Volume 2, dated October 1974. Authority for conducting specialty surveys is contained in AFM 35-2, paragraph 2-1. Computer outputs from which this report was produced are available for use by operating and training officials.

The survey instrument was developed by Captain Philip C. Bressler, Inventory Development Specialist. Captain James N. Eustis analyzed the survey data and wrote the final report. This report has been reviewed and approved by Mr. Paul N. DiTullio, Chief, Maintenance Career Ladders Analysis Section, USAF Occupational Measurement Center, Lackland AFB, Texas 78236.

Computer programs for analyzing the occupational data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Because volume reproduction of this report is not feasible, distribution is made on a loan basis to air staff sections and major commands upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

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SUMMARY OF RESULTS

1. The sample of job incumbents for this report was 69 percent of career ladder members.
2. Respondents to this survey appear to be satisfied with their Air Force careers as reflected by job satisfaction and expressed reenlistment intentions.
3. The career ladder structure of this specialty results from a large core of commonly performed tasks. These tasks are from duties covering Maintaining Oxygen Systems (Duty H), Aircraft Pressurization Systems (Duty I), Auxiliary Air Systems (Duty L), Air Conditioning Systems (Duty P) and Bleed Air Distribution Systems (Duty Q). Job groups are differentiated by the amount of time spent on similar tasks not by performance of different tasks.
4. Specialty descriptions in AFM 39-1 adequately cover the duties and responsibilities of AFS 423X1 personnel.
5. The usual changes in task performance with time in service were found; that is, as experience increases job incumbents perform more supervisory tasks and less technical tasks.
6. Some differences were found in the tasks performed by DAFSC 42351 stationed CONUS and those assigned overseas. Fourteen tasks, dealing with bleed air distribution functions, were performed by at least 10 percent more CONUS personnel than overseas personnel. Seventy-eight tasks were performed by at least 10 percent more overseas respondents than CONUS respondents. These tasks come from four duties: Maintaining Auxiliary Air Systems (Duty L), Maintaining Life Raft Inflation or Survival Equipment (Duty M), Maintaining Aircraft Miscellaneous Equipment (Duty G), Maintaining Aircraft Combustion Heating Systems (Duty E).
7. Minor additions to the Specialty Training Standard (STS) appear justified. The additions would cover aircraft miscellaneous equipment, especially boundary layer control systems.

OCCUPATIONAL SURVEY REPORT
AIRCRAFT ENVIRONMENTAL SYSTEMS REPAIR CAREER LADDER
AFSCs 42331, 42351, 42371 AND 42396

INTRODUCTION

This is a report of an occupational survey of the Aircraft Environmental Systems Repair Career Ladder, AFSCs 42331, 42351, 42371 and 42396 conducted by the Occupational Survey Branch, USAF Occupational Measurement Center, from November 1975 through August 1976.

The report describes: (1) development and administration of the survey instrument; (2) summaries of tasks performed by airmen grouped by skill level, experience level, and similarity of tasks performed; (3) comparisons with current training and career field structure documents; and (4) recommended actions for further study.

INVENTORY DEVELOPMENT AND ADMINISTRATION

The data collection instrument for the occupational survey was USAF Job Inventory AFPT 90-422-180. The inventory booklet was composed of two parts: a background information section in which job incumbents provided information about themselves; and a duty-task list section which assessed the relative amount of time spent on tasks performed in their current jobs. The latter section consisted of 736 tasks grouped under 18 headings. Thorough research of publications and directives, personal interviews with six subject-matter specialists at one base, and written reviews from 52 experienced aircraft environmental systems repair personnel contributed to the development of the survey instrument.

Consolidated base personnel offices in operational units worldwide received the inventory booklets for administration to 1,590 job incumbents holding the DAFSC's identified above. Survey administration occurred during 30 October 1975 through 30 March 1976 based upon the September 1975 Uniform Airman Record. Tables 1 and 2 give the distribution of assigned personnel in the career ladder as of July 1976 and the percentage, by major command, of inventory booklets returned from the field. The sample of personnel in this report represents 69 percent of career ladder members.

After supplying identification and biographical information, incumbents checked and rated the tasks performed in their current job. Tasks were rated on a 9-point scale showing relative time spent on each task compared to all other tasks performed in the current job. The ratings range from 1 (very-much-below-average time spent) through 5 (about-average time spent) to 9 (very-much-above-average time spent). Respondents did not rate tasks not performed in their current job.

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In the development of the job inventory, every effort was made to include all duties and tasks of importance to the accuracy and completeness of the survey. However, due to the possibility of inadvertent omissions, instructions for completing the inventory urged respondents to write in any duties or tasks not listed. In this survey, no important write-in information was found.

TABLE 1
SKILL LEVEL REPRESENTATION IN SURVEY SAMPLE

<u>SKILL LEVEL</u>	<u>PERCENT OF ASSIGNED STRENGTH</u>	<u>PERCENT OF SURVEY SAMPLE</u>
3/5	70	70
7	16	29
9	14*	1**

* ALL DAFSC 42396 PERSONNEL

** SURVEYED ONLY DAFSC 42396 INCUMBENTS SUPERVISING DAFSC 423X1 PERSONNEL

TABLE 2
COMMAND REPRESENTATION IN THE SURVEY SAMPLE

<u>COMMAND</u>	<u>PERCENT ASSIGNED*</u>	<u>PERCENT SURVEY SAMPLE**</u>
MAC	27	25
TAC	25	23
SAC	20	20
USAFE	8	8
ATC	8	7
ADC	5	6
PACAF	3	3
AFSC	2	3
AAC	1	1
AFLC	LESS THAN 1	LESS THAN 1
AFCS	LESS THAN 1	LESS THAN 1
OTHER	LESS THAN 1	LESS THAN 1

* AS OF MAY 1976, INCLUDES ALL DAFSC 42396

** SURVEYED ONLY THOSE DAFSC 42396 INCUMBENTS WHO SUPERVISED DAFSC 423X1 PERSONNEL

PLANS FOR REENLISTMENT, JOB INTEREST, UTILIZATION OF TALENTS, AND UTILIZATION OF TRAINING

In the background section of the inventory, respondents were asked to indicate their feelings about their Air Force careers. They were asked about their reenlistment plans, job interest, perceived utilization of talents, and perceived utilization of training. A summarization of the findings are presented in Table 3.

Less than 50 percent of first enlistment personnel indicate they would either probably or definitely reenlist. This figure dramatically increases to 75 percent for the second enlistment personnel who indicate they would or probably would reenlist. The figure continues to increase to a high of 97 percent for the fourth enlistment job incumbents. The subsequent percentage drop reflects retirement eligibility.

Fifty-four percent of first enlistment personnel report finding their job "fairly interesting" to "extremely interesting". This percentage increases during the second, third and fourth enlistments to a peak of 83 percent finding their jobs "fairly interesting" to "extremely interesting". There is a slight drop among fifth enlistment personnel, but an increase again for the sixth enlistment group and beyond.

Perceived utilization of talents is also initially fairly high and increases through the fourth enlistment, then drops slightly. First enlistment personnel are the only group where at least 75 percent of the incumbents do not report feeling their talents are utilized "fairly well" to "perfectly".

Perceived utilization of training follows the same pattern as utilization of talents, but is initially much higher. Eighty-three percent of first enlistment personnel report their training utilized "fairly well" to "perfectly".

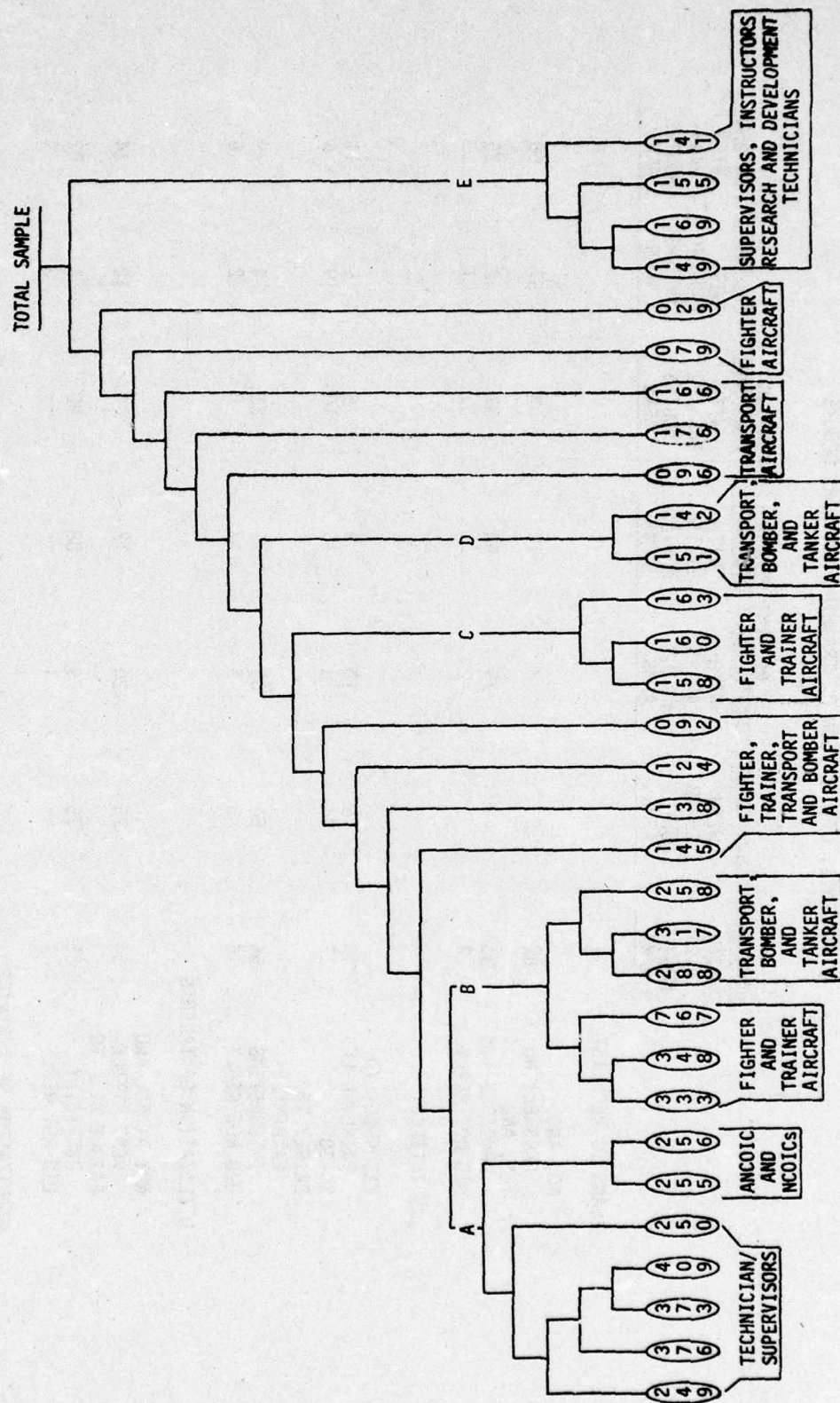
Overall, the respondents to this survey appear to find their Air Force careers rewarding.

TABLE 3

PLANS FOR REENLISTMENT, JOB INTEREST, UTILIZATION
OF TALENTS, UTILIZATION OF TRAINING FOR AFMS GROUPS

	PERCENT MEMBERS RESPONDING					
	PERSONNEL WITH 6-24 MONTHS AFMS	PERSONNEL WITH 25-48 MONTHS AFMS	PERSONNEL WITH 49-96 MONTHS AFMS	PERSONNEL WITH 97-144 MONTHS AFMS	PERSONNEL WITH 145-192 MONTHS AFMS	PERSONNEL WITH 193-240 MONTHS AFMS
PLANS TO REENLIST						PERSONNEL WITH 241+ MONTHS AFMS
NO, AND PROBABLY NO	62	55	23	10	3	65
YES, AND PROBABLY YES	36	44	75	90	97	35
DID NOT REPLY	2	1	2	--	--	--
JOB INTEREST						
EXTREMELY TO FAIRLY DULL	15 27	16 24	10 18	9 13	5 10	11 4
SO-SO FAIRLY TO EXTREMELY INTERESTING	54 4	54 6	65 7	76 2	83 2	79 6
DID NOT REPLY						
UTILIZATION OF TALENTS						
NOT AT ALL AND VERY LITTLE	34	25	20	12	10	14
FAIRLY WELL TO PERFECTLY	65	75	79	88	90	82
DID NOT REPLY	1	--	1	--	--	4
UTILIZATION OF TRAINING						
NOT AT ALL AND VERY LITTLE	17	17	10	11	10	14
FAIRLY WELL OR PERFECTLY	83	83	89	89	90	82
DID NOT REPLY	--	--	1	--	--	4

FIGURE 1
SIMPLIFIED FUNCTIONAL CAREER LADDER STRUCTURE



CAREER LADDER STRUCTURE

The job structure of the Aircraft Environmental Systems Repair Career Ladder was determined on the basis of similarity of the tasks performed by incumbents in the field, independent of DAFSC or other background factors. The products of the computerized hierarchical grouping procedure used in this part of the analysis helped identify: (1) tasks which tended to be performed together in the field by the same incumbents; (2) the breadth or narrowness of jobs in the field; and (3) tasks and incumbent background characteristics which may be used for distinguishing between the functional requirements in the field as they existed at the time of the survey. Structure analysis provided an objective indication of the amount of task overlap between various groups of incumbents included in the survey.

Based on task overlap, the best divisions among the jobs performed in the AFS 423X1 career ladder are those illustrated in Figure 1. There are two kinds of groups: (1) job types which consist of survey respondents who perform a great many of the same tasks and spend similar amounts of time on those tasks; and (2) job clusters which contain incumbents who perform some of the same tasks but are not as similar in task performance as members of job type groups. In this survey 29 groups were identified (14 clusters and 15 job types).

The analysis of the career ladder structure showed that there is a great deal of similarity among nearly all of the job groups identified. The performance of tasks dealing with Maintaining Aircraft Oxygen Systems (Duty H), Maintaining Aircraft Pressurization Systems (Duty I), Maintaining Auxiliary Air Systems (Duty L), Performing Air Conditioning System Functions (Duty P), and Performing Bleed Air Distribution Systems Functions (Duty Q), were pervasive through most of the job groups.

This high degree of commonality in tasks performed means the separation of jobs groups identified by the computer and presented in Figure 1 was often based on time spent performing similar tasks or performing a limited number of different tasks that do not appear until relatively low in the computerized job description for the group. As a result, the names of some job groups are based on what makes them different from other groups, even though the real differences may be hard to find, as well as, what appears to be the nature of the tasks which constitute the primary job of the groups.

As can be seen in the descriptions for the various job groups shown in Appendix A, a large percentage of time is accounted for by a number of duties. Careful examination shows that differences among job groups will often be reflected by differences in the relative amounts of time spent on tasks from the various duties or the inclusion of tasks from a different duty. This new duty will not always contribute a very large amount of time spent. Tasks from duties not listed may be presented in the "Five Representative Tasks" section, such tasks are

chosen to help demonstrate the differences, as well as, the commonality of jobs performed.

Five large functional areas were found in the 423X1 career ladder. These areas are noted A, B, C, D and E on Figure 1. In the case of Area A, the jobs are clearly distinct from the other groups. These jobs are supervisory, ranging from first line supervisors to NCOICs. Areas B, C, and D, while clearly covering the technical aspects of aircraft environmental systems maintenance, are not easily distinguished from each other. Differences are apparent with respect to time spent on duties. The clearest differences, however, can be more easily found in some of the demographic variables of the respondents. As shown in Table 4 there are distinct differences among the groups with respect to average number of tasks performed, percent of the group who are 7-skill levels personnel, average month AFMS, and percent of the group who are supervising. On the whole then, the clearest differences appear to be based on the breadth of the job performed by group members and the experience/responsibility level of the incumbents. Group B respondents tend to perform more tasks, have been in the service longer, and have greater supervisory responsibilities than either C or D job group incumbents. While the computer did not separate the jobs on the basis of these variables, these factors help explain some differences in task performance.

The four job groups which appear after Area B (GRP145-GRP092) in Figure 1 are relatively small groups containing personnel who are performing diverse jobs which are more like the jobs performed by the personnel in the groups in Area B than jobs performed by personnel in other areas. Incumbents in the five job groups after Area D are performing tasks more like those done by incumbents in Areas C and D, than jobs done by incumbents in other areas.

The job groups in Area E are concerned with section supervision, resident training supervision, research and development, and resident course instruction.

TABLE 4

SUMMARY OF SELECTED DEMOGRAPHIC VARIABLES DESCRIBING GROUPS IN THE
SIMPLIFIED CAREER LADDER STRUCTURE DIAGRAM (FIG. 1)

GRP		AVERAGE NUMBER TASKS PERFORMED	PERCENT WITH DAFSC 42371	AVERAGE MONTHS AFMS	PERCENT SUPERVISING
GRP249	OXYGEN, AIR CONDITIONING, BLEED AIR DISTRIBUTION SYSTEMS TECHNICIANS	380	37	101	47
GRP376	AIR CONDITIONING LIQUID OXYGEN AND BLEED AIR TECHNICIANS	514	18	55	18
GRP373	PRESSURIZATION AIR CONDITIONING AND AUXILIARY AIR SYSTEMS TECHNICIANS	236	16	49	35
GRP409	PRESSURIZATION AND WING ANTI-ICING TECHNICIANS	232	23	57	31
GRP250	OXYGEN AND FIRE EXTINGUISHING SYSTEMS TECHNICIANS	210	20	66	40
GRP255	WORKING SUPERVISORS (SHIFT SUPERVISORS, ASSISTANT NCOICS)	213	64	128	71
GRP256	NCOIC ENVIRONMENTAL CONTROL	231	87	165	87
GRP333	TROUBLE ANALYSIS TECHNICIANS	137	20	58	75
GRP348	ANTI-ICING, ICE DETECTION SYSTEMS TECHNICIANS	145	6	44	16
GRP767	AIR CONDITIONING AND AUXILIARY AIR TECHNICIANS	131	17	62	67
GRP288	WING ANTI-ICING TECHNICIANS	144	18	54	22
GRP317	LIQUID CYCLE REFRIGERATION TECHNICIANS	139	18	53	23
GRP258	AIR CONDITIONING AND FIRE EXTINGUISHING SYSTEMS SPECIALISTS	170	9	56	23

TABLE 4
(CONTINUED)SUMMARY OF SELECTED DEMOGRAPHIC VARIABLES DESCRIBING GROUPS IN THE
SIMPLIFIED CAREER LADDER STRUCTURE DIAGRAM (FIG. 1)

GRP	AVERAGE NUMBER TASKS PERFORMED	PERCENT WITH DAFSC 42371	AVERAGE MONTHS AFMS	PERCENT SUPERVISING
GRP145	175	21	54	29
GRP138	108	14	77	14
GRP124	139	69	107	85
GRP092	97	17	54	33
GRP158	90	7	39	16
GRP160	89	20	51	20
GRP163	68	0	47	11
GRP151	85	27	74	27
GRP142	54	0	30	0
GRP096	110	0	22	0
GRP176	107	29	65	29
GRP166	73	0	26	17
GRP079	55	0	30	0
GRP029	39	6	33	6
GRP149	92	77	206	100
GRP169	76	100	180	56
GRP155	30	83	176	50
GRP141	22	47	109	13

DISCUSSION OF SKILL LEVEL GROUPS

DAFSC 42331 (N=85) and 42351 (N=682)

These two DAFSC groups spend equal amounts of time performing tasks from Maintaining Aircraft Miscellaneous Equipment, Duty G, (three percent); Maintaining Aircraft Oxygen Systems, Duty H, (18 percent); Maintaining Air Turbine Motors (ATM), Duty K, (two percent); Maintaining Life Raft Inflation or Survival Equipment, Duty M, (two percent); Performing Air Conditioning System Functions, Duty P, (19 percent); and Performing Bleed Air Distribution System Functions, Duty Q, (16 percent). The greatest difference found in time spent on duties between these two groups was DAFSC 42331 respondents spent three percent of their job time on performing Maintenance (Duty R) tasks and DAFSC 42351 incumbents spent six percent of their job time on tasks from Duty R. (See Table 5).

The majority of job time for DAFSC 42331 personnel is spent performing tasks related to Maintaining Aircraft Oxygen Systems, Duty H, (18 percent); Maintaining Aircraft Pressurization Systems, Duty I, (12 percent); Maintaining Auxiliary Air Systems, Duty L, (12 percent); Performing Air Conditioning Functions, Duty P, (19 percent); and Performing Bleed Air Distribution System Functions, Duty Q, (16 percent). These five duties account for 77 percent of the job time. Table 6 presents tasks representative of the job performed by DAFSC 42331 personnel.

The majority of the time spent on the job (64 percent) by DAFSC 42351 respondents is on tasks from four duties: Performing Air Conditioning Functions, Duty P, (19 percent); Maintaining Aircraft Oxygen Systems, Duty H, (18 percent); Performing Bleed Air Distribution Systems Functions, Duty Q, (16 percent) and Maintaining Aircraft Pressurization System, Duty I, (11 percent). Table 7 presents tasks typically performed by these personnel.

Greater percentages of DAFSC 42351 personnel are performing tasks associated with fixed fire extinguishing systems, bleed air ducting systems, temperature control systems, high pressure gaseous systems, and electronic equipment air conditioning systems. Conversely, greater percentages of DAFSC 42331 job incumbents are maintaining anti-G suit systems, canopy seal pressurization systems, and air vacuum de-icer systems.

The responsibility for performing technical tasks required in this career ladder rests primarily with these two groups of incumbents in terms of percent time spent performing tasks. This is mainly due to the shift in responsibility which occurs at the 7-skill level where supervision becomes a larger part of the job. Table 8 illustrates the differences.

DAFSC 42371 (N=320)

Typically, supervision becomes a major responsibility of the 7-skill level incumbents with a collateral decrease in the time spent performing technical tasks. Thirty percent of the job time is spent performing tasks from three supervisory duties: Organizing and Planning, Duty A, (nine percent); Directing and Implementing, Duty B, (12 percent); and Inspecting and Evaluating, Duty C, (nine percent). An additional seven percent of the time is spent on Training (Duty D).

The 7-skill level job incumbents still spend a good deal of time performing tasks from the technical duties, most notably: 12 percent time spent on tasks relating to Maintaining Oxygen Systems (Duty H), 12 percent time spent on tasks from Performing Air Conditioning Systems Functions (Duty P), and 10 percent time spent Performing Bleed Air Distribution System Functions (Duty Q) tasks. While these technical tasks account for moderate amounts of work time, they represent a decrease from the amount of time spent by 5-skill level personnel (See Table 5). On a percent members performing basis it is quite evident that DAFSC 4237 job incumbents are engaged in Training (Duty D), 85 percent perform at least one task, and Maintaining or Servicing Category II Test Equipment (Duty O), 57 percent perform at least one task to a larger extent than members of other skill level groups. These data in conjunction with time spent in these duties indicate that these two areas are more the responsibility of personnel with this skill level than any other.

This group of incumbents has a broad job, evidenced by the large percentages of personnel performing tasks in a great number of duties. Also, the 114 most time consuming tasks were required to reach the 50 percent time spent point, an indicator of job breadth. Table 9 presents specific tasks which are representative of the job performed by 7-skill level personnel.

DAFSC 42396 (N=12)

The job of the DAFSC 42396 job incumbents is very narrow and concerned primarily with supervision and training. Tasks from the four duties which cover supervision and training account for 79 percent of the job time of these respondents. Table 10 depicts representative tasks performed by DAFSC 42396 survey respondents. Table 11 illustrates the change in responsibility from the 7-skill level to the 9-skill level.

TABLE 5

PERCENT TIME SPENT IN DUTIES FOR DAFSC GROUPS

DUTY	DAFSC 42331	DAFSC 42351	DAFSC 42371	DAFSC 42396
A ORGANIZING AND PLANNING	1	2	9	22
B DIRECTING AND IMPLEMENTING	1	2	12	30
C INSPECTING AND EVALUATING	1	2	9	22
D TRAINING	--	2	7	5
E MAINTAINING AIRCRAFT COMBUSTION HEATER SYSTEMS	--	1	--	--
F MAINTAINING AIRCRAFT FIRE EXTINGUISHING SYSTEMS	10	5	3	2
G MAINTAINING AIRCRAFT MISCELLANEOUS EQUIPMENT	2	2	1	1
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	18	18	12	5
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	12	11	7	2
J MAINTAINING AIRCRAFT TURBINE DRIVEN STARTERS	1	--	--	--
K MAINTAINING AIR TURBINE MOTORS (ATM)	2	2	1	--
L MAINTAINING AUXILIARY AIR SYSTEMS	12	9	6	2
M MAINTAINING LIFE RAFT INFLATION OR SURVIVAL EQUIPMENT	2	2	1	--
N MAINTAINING LIQUID CYCLE REFRIGERATION SYSTEMS	--	1	1	--
O MAINTAINING OR SERVICING CATEGORY II TEST EQUIPMENT	1	2	2	1
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	19	19	12	2
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	16	16	10	3
R PERFORMING GENERAL SHOP MAINTENANCE	3	6	5	2

TABLE 6
REPRESENTATIVE TASKS PERFORMED
BY DAFSC 42331 PERSONNEL

TASK	PERCENT PERFORMING
H276 REMOVE OR INSTALL AIRCRAFT LIQUID OXYGEN SYSTEM COMPONENTS SUCH AS CONVERTERS	81
I320 PERFORM LEAKAGE CHECK OF CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	80
I319 INSPECT PRESSURIZED COMPARTMENTS FOR LEAKAGE	80
I343 TROUBLESHOOT CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	80
Q685 REMOVE OR INSTALL AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	78
I338 REMOVE OR INSTALL CABIN PRESSURIZATION SYSTEM COMPONENTS	78
P625 REMOVE OR INSTALL CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	76
P647 VISUALLY INSPECT CABIN OR CARGO AIR CONDITIONING SYSTEMS	75
Q688 REMOVE OR INSTALL BLEED AIR DUCTING SYSTEMS OR COMPONENTS	75
H252 PERFORM LEAKAGE CHECK OR OXYGEN REGULATORS	73
H284 REMOVE OR INSTALL OXYGEN REGULATORS	73
Q687 REMOVE OR INSTALL BLEED AIR DISTRIBUTION SYSTEMS OR COMPONENTS	73
Q699 VISUALLY INSPECT AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	69

TABLE 7

REPRESENTATIVE TASKS PERFORMED
BY DAFSC 42351 RESPONDENTS

<u>TASK</u>	<u>PERCENT PERFORMING</u>
I320 PERFORM LEAKAGE CHECK OF CABIN PRESSURIZATION SYSTEM OR COMPONENTS	85
I343 TROUBLESHOOT CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	85
H291 TROUBLESHOOT AIRCRAFT LIQUID OXYGEN SYSTEMS OR COMPONENTS SUCH AS CONVERTERS	84
Q662 PERFORM LEAKAGE CHECK OF AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	84
I348 VISUALLY INSPECT CABIN PRESSURIZATION SYSTEMS	83
H276 REMOVE OR INSTALL AIRCRAFT LIQUID OXYGEN SYSTEM COMPONENTS SUCH AS CONVERTERS	82
Q685 REMOVE OR INSTALL AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	82
Q665 PERFORM LEAKAGE CHECK OF BLEED AIR DUCTING SYSTEMS OR COMPONENTS	81
I261 PERFORM OPERATIONAL CHECK OF OXYGEN REGULATORS	79
I284 REMOVE OR INSTALL OXYGEN REGULATORS	77
P631 REMOVE OR INSTALL TEMPERATURE CONTROL SYSTEM COMPONENTS	75
P644 TROUBLESHOOT TEMPERATURE CONTROL SYSTEMS OR COMPONENTS	72

TABLE 8

TASKS REPRESENTATIVE OF JOB PERFORMANCE
DIFFERENCES BETWEEN DAFSC 42351 PERSONNEL AND DAFSC 42371 PERSONNEL

TASK	PERCENT PERFORMING		
	DAFSC 42351	DAFSC 42371	DIFFERENCE
Q692 TROUBLESHOOT BLEED AIR DISTRIBUTION OVERHEAT WARNING SYSTEMS OR COMPONENTS	70	53	17
I320 PERFORM LEAKAGE CHECK OF CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	85	69	16
P625 REMOVE OR INSTALL CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	80	64	16
Q664 PERFORM LEAKAGE CHECK OF BLEED AIR DISTRIBUTION OVERHEAT WARNING SYSTEMS	47	31	16
I338 REMOVE OR INSTALL CABIN PRESSURIZATION SYSTEM COMPONENTS	85	69	16
Q688 REMOVE OR INSTALL BLEED AIR DUCTING SYSTEMS OR COMPONENTS	83	68	15
B39 COUNSEL PERSONNEL ON PERSONAL OR MILITARY PROBLEMS	14	71	-57
B40 DIRECT COMPLIANCE WITH MAINTENANCE DIRECTIVES	11	59	-48
A24 PLAN OR SCHEDULE WORK ASSIGNMENTS	19	67	-48
C69 CONDUCT CHECKS ON ENVIRONMENTAL MAINTENANCE	28	75	-47
B62 REVIEW MAINTENANCE DATA COLLECTION RECORD FORMS (AFTO FORM 349)	23	70	-47
R705 BRIEF PERSONNEL ON CHANGES IN MAINTENANCE OR ADMINISTRATIVE METHODS AND PROCEDURES	20	66	-46

TABLE 9
REPRESENTATIVE TASKS PERFORMED BY
DAFSC 42371 RESPONDENTS

<u>TASK</u>	<u>PERCENT PERFORMING</u>
I343 TROUBLESHOOT CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	75
C69 CONDUCT SPOT CHECKS ON ENVIRONMENTAL MAINTENANCE	75
C66 ANALYZE CAUSES OF AIRCRAFT ENVIRONMENTAL SYSTEM MALFUNCTIONS	72
H291 TROUBLESHOOT AIRCRAFT LIQUID OXYGEN SYSTEMS OR COMPONENTS SUCH AS CONVERTERS	72
Q698 VISUALLY INSPECT AIRCRAFT BLEED AIR DISTRIBUTION SYSTEMS	72
B39 COUNSEL PERSONNEL ON PERSONAL OR MILITARY PROBLEMS	71
Q701 VISUALLY INSPECT BLEED AIR DUCTING SYSTEMS OR COMPONENTS	71
B62 REVIEW MAINTENANCE DATA COLLECTION RECORD FORMS (AFTO FORM 349)	70
A6 DETERMINE PART ORDERING PRIORITIES	67
A24 PLAN OR SCHEDULE WORK ASSIGNMENTS	67
D100 DEMONSTRATE OPERATION OF EQUIPMENT	66

TABLE 10
REPRESENTATIVE TASKS OF JOB PERFORMED BY
DAFSC 42396 RESPONDENTS

<u>TASK</u>	<u>PERCENT PERFORMING</u>
B44 DRAFT CORRESPONDENCE	100
B39 COUNSEL PERSONNEL ON PERSONAL OR MILITARY PROBLEMS	100
B52 INTERPRET POLICIES, DIRECTIVES OR PROCEDURES FOR SUBORDINATES	100
B59 PREPARE MAINTENANCE REPORTS	100
A5 DESIGN METHODS TO IMPROVE MAINTENANCE PROCEDURES	92
A9 DEVELOP WORKING AGREEMENT WITH OTHER MAINTENANCE SECTIONS	92
B34 CONDUCT OR PARTICIPATE IN STAFF MEETINGS	92
B36 COORDINATE MAINTENANCE BETWEEN WORK SECTIONS OR OTHER AGENCIES	92
B62 REVIEW MAINTENANCE DATA COLLECTION RECORD FORMS (AFTO FORM 349)	92
A1 CHECK REPORTS TO DETERMINE METHOD FOR IMPROVING PROCEDURES	92

TABLE 11

TASKS REPRESENTATIVE OF JOB PERFORMANCE DIFFERENCE
BETWEEN DAFSC 42371 PERSONNEL AND DAFSC 42396 PERSONNEL

TASK	PERCENT PERFORMING		
	DAFSC 42371	DAFSC 42396	DIFFERENCE
P644 TROUBLESHOOT TEMPERATURE CONTROL SYSTEMS OR COMPONENTS	64	0	64
P638 TROUBLESHOOT CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	68	8	60
P631 REMOVE OR INSTALL TEMPERATURE CONTROL SYSTEM COMPONENTS	65	8	57
H276 REMOVE OR INSTALL AIRCRAFT LIQUID OXYGEN SYSTEM COMPONENTS SUCH AS CONVERTERS	69	17	52
Q693 TROUBLESHOOT BLEED AIR DUCTING SYSTEMS OR COMPONENTS	69	17	52
H261 PERFORM OPERATIONAL CHECK OF OXYGEN REGULATORS	67	17	50
B44 DRAFT CORRESPONDENCE	41	100	-59
B34 CONDUCT OR PARTICIPATE IN STAFF MEETING	36	92	-56
B59 PREPARE MAINTENANCE REPORTS	48	100	-52
B47 IMPLEMENT EMERGENCY PROCEDURES FOR USE DURING EXTREME MAINTENANCE LOADS	23	75	-52
B45 ESTABLISH REQUIREMENTS FOR PUBLICATIONS	36	83	-47
B52 INTERPRET POLICIES, DIRECTIVES OR PROCEDURES FOR SUBORDINATES	56	100	-44

AFM 39-1 SPECIALTY DESCRIPTIONS

The 26 April 1976 changes to the AFM 39-1 Specialty Descriptions for DAFSC 423X1/96 personnel were compared to task performance data. These recently revised descriptions accurately describe the tasks performed by personnel in this career ladder.

COMPARISON OF TASK PERFORMANCE DATA ACROSS AFMS GROUPS

For the purpose of more clearly showing the organization of duty time for DAFSC 423X1 personnel in their first job assignment after technical training, the initial AFMS group discussed will be job incumbents with 6-24 months active duty. As shown in Table 12, tasks related to Performing Air Conditioning Functions, (Duty P) take more job time (20 percent) than tasks from any other duty. In addition, tasks from Maintaining Aircraft Oxygen Systems, (Duty H) and Performing Bleed Air Distribution Systems Functions, (Duty Q) each require 18 percent of duty time for the first job assignment personnel. Further, Maintaining Aircraft Pressurization Systems (Duty I) tasks account for 11 percent of duty time for DAFSC 423X1 personnel with 6-24 months AFMS.

Table 13 shows representative tasks performed by first job assignment incumbents. Figures for time spent on duties by personnel in the second half of their first enlistment are very similar to time spent on duties by job incumbent with 6-24 months AFMS (See Table 12). However, as Table 14 delineates there are some differences among the representative tasks performed, but these are minor variations. And finally, there is a very slight increase in time spent on supervisory tasks from Duty A (Organizing and Planning), Duty B (Directing and Implementing), Duty C (Inspecting and Evaluation) and Duty D (Training).

For job incumbents with 49-96 months AFMS (second enlistment) there are some changes which are indicative of the typical progression within career fields, away from technical tasks and towards supervisory tasks as time in the career field increases. In particular, DAFSC 423X1/96 personnel in their second enlistment spend an average of 12 percent of their duty time on supervisory tasks from Organizing and Planning (Duty A), Directing and Implementing (Duty B), Inspecting and Evaluating (Duty C) and Training (Duty D). Contemporaneously, there are some slight decreases in time spent on technical tasks: Performing Air Conditioning Functions (Duty P), 17 percent; Maintaining Aircraft Oxygen Systems (Duty H), 18 percent; Performing Bleed Air Distribution System Functions (Duty Q) 14 percent; and Maintaining Aircraft Pressurization Systems (Duty I), 10 percent. As shown in Table 15 the representative tasks for members of this AFMS group are all still primarily technical tasks.

Among DAFSC 423X1/96 survey respondent with 97-144 months AFMS (third enlistment) the shift in emphasis to performing supervisory tasks becomes more pronounced. In fact, 25 percent of the duty time of these job incumbents is taken up by tasks from Organizing and Planning (Duty A), (five percent), Directing and Implementing (Duty B), (nine percent), Inspecting and Evaluation (Duty C), (six percent) and Training (Duty D), (six percent). As detailed in Table 12, there are further decreases in time spent on technical tasks. In addition, representative tasks for this group's members includes three from supervisory duties (See Table 16).

Fourth enlistment (145-192 months AFMS) job incumbents spent an average of 43 percent of their duty time performing supervisory tasks. For example, Directing and Implementing (Duty B) tasks account for more job time (14 percent) than tasks from any other duty. Also, Inspecting and Evaluating (Duty C) tasks take up 11 percent of fourth enlistment job incumbents' duty time, which is the same amount of time accounted for by tasks related to Performing Air Conditioning Functions (Duty P). As shown in Table 17, all but one of the representative tasks for members of this group come from Organizing and Planning (Duty A), Directing and Implementing (Duty B) or Inspecting and Evaluating (Duty C).

Lastly, over one-half (52 percent) of duty time of survey respondents with 193 to 240 months AFMS (fifth enlistment) is spent performing supervisory tasks. All the tasks representative of the jobs performed by this group of DAFS 423X1/96 survey respondents are from supervisory duties (See Table 18).

TABLE 12
PERCENT TIME SPENT IN DUTIES

DUTY	MONTHS AFMS									
	6-24	25-48	49-96	97-144	145-192	193-240				
A ORGANIZING AND PLANNING	1	1	3	5	10	13				
B DIRECTING AND IMPLEMENTING	1	2	4	9	14	17				
C INSPECTING AND EVALUATING	1	2	3	6	11	12				
D TRAINING	1	2	2	6	8	10				
E MAINTAINING AIRCRAFT COMBUSTION HEATER SYSTEMS	1	1	1	1	1	1				
F MAINTAINING AIRCRAFT FIRE EXTINGUISHING SYSTEMS	5	4	5	4	3	3				
G MAINTAINING AIRCRAFT MISCELLANEOUS EQUIPMENT	2	2	2	1	2	1				
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	18	18	18	14	10	8				
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	11	19	10	8	7	6				
J MAINTAINING AIRCRAFT TURBINE DRIVEN STARTERS	1	1	1	1	1	1				
K MAINTAINING AIR TURBINE MOTORS (ATM)	2	2	1	1	1	1				
L MAINTAINING AUXILIARY AIR SYSTEMS	9	9	8	7	5	4				
M MAINTAINING LIFE RAFT INFLATION OR SURVIVAL EQUIPMENT	2	2	2	1	2	1				
N MAINTAINING LIQUID CYCLE REFRIGERATION SYSTEMS	1	1	1	1	1	1				
O MAINTAINING SERVICING OR CATEGORY II TEST EQUIPMENT	1	1	2	2	3	2				
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	20	19	17	16	11	8				
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	18	16	14	12	8	8				
R PERFORMING GENERAL SHOP MAINTENANCE	8	6	7	5	4	4				

TABLE 13

REPRESENTATIVE TASKS PERFORMED BY DAFSC 423X1 PERSONNEL
WITH 6-24 MOS AFMS

<u>TASK</u>	<u>PERCENT PERFORMING</u>
Q685 REMOVE OR INSTALL AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	84
Q688 REMOVE OR INSTALL BLEED AIR DUCTING SYSTEMS OR COMPONENTS	83
H276 REMOVE OR INSTALL AIRCRAFT LIQUID OXYGEN SYSTEM COMPONENTS SUCH AS CONVERTERS	82
H291 TROUBLESHOOT AIRCRAFT LIQUID OXYGEN SYSTEMS OR COMPONENTS SUCH AS CONVERTERS	82
P625 REMOVE OR INSTALL CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	82
H252 PERFORM LEAKAGE CHECK OF OXYGEN REGULATORS	81
Q662 PERFORM LEAKAGE CHECK OF AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	80
I320 PERFORM LEAKAGE CHECK OF CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	79
I319 INSPECT PRESSURIZED COMPONENTS FOR LEAKAGE	79
Q665 PERFORM LEAKAGE CHECK OF BLEED AIR DUCTING SYSTEMS OR COMPONENTS	78
H284 REMOVE OR INSTALL OXYGEN REGULATORS	77
H261 PERFORM OPERATIONAL CHECK OF OXYGEN REGULATORS	77

TABLE 14
 REPRESENTATIVE TASKS PERFORMED BY DAFSC 423X1 PERSONNEL
 WITH 25-48 MONTHS AFMS

TASK	PERCENT PERFORMING
I320 PERFORM LEAKAGE CHECK OF CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	88
I343 TROUBLESHOOT CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	88
I338 REMOVE OR INSTALL CABIN PRESSURIZATION SYSTEM COMPONENTS	86
Q662 PERFORM LEAKAGE CHECK OF AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	84
H276 REMOVE OR INSTALL AIRCRAFT LIQUID OXYGEN SYSTEM COMPONENTS SUCH AS CONVERTERS	83
Q688 REMOVE OR INSTALL BLEED AIR DUCTING SYSTEMS OR COMPONENTS	83
H291 TROUBLESHOOT AIRCRAFT LIQUID OXYGEN SYSTEMS OR COMPONENTS SUCH AS CONVERTERS	82
H261 PERFORM OPERATIONAL CHECK OF OXYGEN REGULATORS	81
P625 REMOVE OR INSTALL CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	78
H284 REMOVE OR INSTALL OXYGEN REGULATORS	77

TABLE 15
 REPRESENTATIVE TASKS PERFORMED BY DAFSC 423X1 PERSONNEL
 WITH 49-96 MONTHS AFMS

TASK	PERCENT PERFORMING
Q699 VISUALLY INSPECT AIRCRAFT ENVIRONMENTAL DUCTING SYSTEM	85
H291 TROUBLESHOOT AIRCRAFT LIQUID OXYGEN SYSTEMS OR COMPONENTS SUCH AS CONVERTERS	83
I320 PERFORM LEAKAGE CHECK OF CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	83
I343 TROUBLESHOOT CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	83
Q688 REMOVE OR INSTALL BLEED AIR DUCTING SYSTEMS OR COMPONENTS	83
H276 REMOVE OR INSTALL AIRCRAFT LIQUID OXYGEN SYSTEM COMPONENTS SUCH AS CONVERTERS	82
Q687 REMOVE OR INSTALL BLEED AIR DISTRIBUTION SYSTEMS OR COMPONENTS	82
Q701 VISUALLY INSPECT BLEED AIR DUCTING SYSTEMS OR COMPONENTS	82
P625 REMOVE OR INSTALL CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	77
H245 PERFORM LEAKAGE CHECK OF AIRCRAFT LIQUID OXYGEN SYSTEMS OR COMPONENTS SUCH AS CONVERTERS	75

TABLE 16

REPRESENTATIVE TASKS PERFORMED BY DAFSC 423X1 PERSONNEL
WITH 97-144 MONTHS AFMS

TASK	PERCENT PERFORMING
H291 TROUBLESHOOT AIRCRAFT LIQUID OXYGEN SYSTEMS OR COMPONENTS SUCH AS CONVERTERS	83
I348 VISUALLY INSPECT CABIN PRESSURIZATION SYSTEMS	83
P625 REMOVE OR INSTALL CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	78
P607 PERFORM OPERATIONAL CHECK OF TEMPERATURE CONTROL SYSTEMS OR COMPONENTS	76
P638 TROUBLESHOOT CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	76
Q685 REMOVE OR INSTALL AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	76
C69 CONDUCT SPOT CHECKS OF ENVIRONMENTAL MAINTENANCE	74
C66 ANALYZE CAUSES OF AIRCRAFT ENVIRONMENTAL SYSTEM MALFUNCTIONS	69
D100 DEMONSTRATE OPERATION OF EQUIPMENT	68
B62 REVIEW MAINTENANCE DATA COLLECTION RECORD FORMS (AFTO FORM 349)	65

TABLE 17

REPRESENTATIVE TASKS PERFORMED BY DAFSC 423X1 PERSONNEL
WITH 145-192 MONTHS AFMS

TASK	PERCENT PERFORMING
B39 COUNSEL PERSONNEL ON PERSONAL OR MILITARY PROBLEMS	79
A9 DEVELOP WORKING AGREEMENT WITH OTHER MAINTENANCE SECTIONS	77
A6 DETERMINE PART ORDERING PRIORITIES	76
C66 ANALYZE CAUSES OF AIRCRAFT ENVIRONMENTAL SYSTEM MALFUNCTIONS	74
C69 CONDUCT SPOT CHECKS ON ENVIRONMENTAL MAINTENANCE	74
R705 BRIEF PERSONNEL ON CHANGES IN MAINTENANCE OR ADMINISTRATIVE METHODS AND PROCEDURES	74
A24 PLAN OR SCHEDULE WORK ASSIGNMENTS	71
A1 CHECK REPORTS TO DETERMINE METHOD FOR IMPROVING PROCEDURES	64
B35 CONTROL WORK FLOW	63
B59 PREPARE MAINTENANCE REPORTS	63

TABLE 18
REPRESENTATIVE TASKS PERFORMED BY DAFSC 423X1 PERSONNEL
WITH 193-240 MONTHS AFMS

TASK	PERCENT PERFORMING
B39 COUNSEL PERSONNEL ON PERSONAL OR MILITARY PROBLEMS	81
B56 ORIENT NEWLY ASSIGNED PERSONNEL	79
A24 PLAN OR SCHEDULE WORK ASSIGNMENTS	78
B52 INTERPRET POLICIES, DIRECTIVES OR PROCEDURES FOR SUBORDINATES	72
D99 COUNSEL INDIVIDUALS ON TRAINING PROGRESS OR CAREER PROGRESSION	67
A5 DESIGN METHODS TO IMPROVE MAINTENANCE PROCEDURES	65
C75 EVALUATE MAINTENANCE PROCEDURES	65
B59 PREPARE MAINTENANCE REPORTS	62
C67 ANALYZE MAINTENANCE REPORTS ON AIRCRAFT ENVIRONMENTAL SYSTEMS	60
B34 CONDUCT OR PARTICIPATE IN STAFF MEETING	54

COMPARISON OF JOBS PERFORMED BY DAFSC
42351 PERSONNEL CONUS AND OVERSEAS

Comparisons between jobs performed by 5-skill level personnel assigned in CONUS and overseas are based on the responses of 547 CONUS DAFSC 42351 respondents and 133 overseas DAFSC 42351 respondents.

Indicative of the jobs performed by CONUS personnel are in the duties in which they spend their time. Fifty-three percent of the time spent by the CONUS group was on tasks from three duties: Performing Air Conditioning Functions, Duty P, (19 percent time spent); Maintaining Aircraft Oxygen Systems, Duty H, (18 percent time spent); and Performing Bleed Air Distribution System Functions, Duty Q, (16 percent time spent). By comparison 51 percent of the job time of the overseas 5-skill level was spent in three duties: Performing Air Conditioning Aircraft Oxygen Systems (Duty P), 18 percent time spent; and Performing Bleed Air Distribution Systems Functions (Duty Q), 14 percent time spent.

There were 78 tasks performed by 10 percent or more of the overseas 5-skill level respondents than the CONUS 5-skill level respondents. Twenty-four of these 78 tasks were from Maintaining Auxiliary Air Systems (Duty L), 10 from Maintaining Life Raft Inflation or Survival Equipment (Duty M), six from Maintaining Aircraft Miscellaneous Equipment (Duty G), and six from Maintaining Aircraft Combustion Heater Systems (Duty E). Table 19 presents tasks representative of these differences.

TABLE 19

TASKS SHOWING REPRESENTATIVE DIFFERENCE BETWEEN DAFSC 42351 PERSONNEL
STATIONED IN CONUS AND DAFSC 42351 PERSONNEL STATIONED OVERSEAS

TASK		PERCENT PERFORMING		DIFFERENCE
		CONUS	OVERSEAS	
Q689	REMOVE OR INSTALL ENGINE BLEED AIR ANTI-ICING SYSTEM COMPONENTS	49	26	23
Q672	PERFORM OPERATIONAL CHECK OF ENGINE BLEED AIR ANTI-ICING SYSTEMS OR COMPONENTS	47	27	20
Q694	TROUBLESHOOT ENGINE BLEED AIR ANTI-ICING SYSTEMS	49	29	20
Q673	PERFORM OPERATIONAL CHECK OR ENGINE INTAKE BLEED AIR ANTI-ICING SYSTEMS OR COMPONENTS	31	12	19
Q667	PERFORM LEAKAGE CHECK OF ENGINE INTAKE BLEED AIR ANTI-ICING SYSTEMS OR COMPONENTS	28	10	18
P626	REMOVE OR INSTALL ELECTRONIC COOLING FANS	46	31	15
H235	ADJUST OXYGEN INDICATING OR WARNING SYSTEM COMPONENTS	36	26	10
G209	REMOVE OR INSTALL BOUNDARY LAYER AIR CONTROL SYSTEM COMPONENTS	17	48	-31
H488	PERFORM SERVICEABILITY CHECK OF OXYGEN BAILOUT BOTTLES	11	40	-29
G226	VISUALLY INSPECT BOUNDARY LAYER AIR CONTROL SYSTEMS OR COMPONENTS	12	41	-29
L424	PERFORM LEAKAGE CHECK OF RAIN REMOVAL SYSTEMS OR COMPONENTS	35	63	-28
G188	PERFORM OPERATIONAL CHECK OF BOUNDARY LAYER AIR CONTROL SYSTEMS OR COMPONENTS	13	41	-28
M501	TROUBLESHOOT OXYGEN BAILOUT BOTTLES	9	35	-24
M486	PERFORM LEAKAGE CHECK ON CO ₂ LIFE RAFT OR BAILOUT BOTTLES	28	53	-23

TASK DIFFICULTY

From a listing of airmen identified for the aircraft environmental systems repair job survey, 73 incumbents in the 7- and 9-skill levels from various commands and locations rated task difficulty. Tasks were rated on a nine-point scale from very-much-below average to very-much-above average difficulty, with difficulty defined as the length of time required by an average incumbent to learn to do the task. Interrater agreement was .95. Ratings were adjusted so that tasks of average difficulty have ratings of 5.00. Tasks representative of various levels of task difficulty are presented in Table 20.

The tasks with above average difficulty generally were supervisory and technical tasks that required troubleshooting or calibration. The troubleshooting and calibrating tasks were not from a few duties, but spread out over most of the job inventory duties.

The tasks with average difficulty were generally those dealing with performing leakage, serviceability, operational or bench checks of components or systems. Also, lower level supervisory and administrative tasks were rated in this range. Some troubleshooting tasks were rated in the average difficulty range, but others were rated above average in difficulty. Visual inspection tasks were generally rated below average difficulty. The tasks dealing with the removal and installation of systems and components were rated from average to below average difficulty.

TABLE 20

REPRESENTATIVE OF DIFFERENT TASKS RATED ABOVE AVERAGE, AVERAGE AND BELOW AVERAGE DIFFICULTY

ABOVE AVERAGE DIFFICULTY

TASK	DIFFICULTY RATING
C66 ANALYZE CAUSES OF AIRCRAFT ENVIRONMENTAL SYSTEM MALFUNCTIONS	7.1
I343 TROUBLESHOOT CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	6.8
P579 ADJUST TEMPERATURE CONTROL SYSTEM COMPONENTS	6.8
P644 TROUBLESHOOT TEMPERATURE CONTROL SYSTEM OR COMPONENTS	6.7
P638 TROUBLESHOOT CABIN OR CARGO AIR CONDITIONING SYSTEM OR COMPONENTS	6.5
I346 TROUBLESHOOT ELECTRONIC PACK PRESSURIZATION SYSTEMS OR COMPONENTS	6.4
Q696 TROUBLESHOOT ENGINE INTAKE ICE DETECTION SYSTEMS OR COMPONENTS	6.3
Q697 TROUBLESHOOT WING ANTI-ICING SYSTEMS	6.3
L461 TROUBLESHOOT AIRCRAFT EXPANSION COOLING AIR CONDITIONING SYSTEMS	6.2
I345 TROUBLESHOOT ELECTRICALLY OPERATED AIR FLOW OR PRESSURE CONTROL DEVICES	6.2
H297 TROUBLESHOOT OXYGEN INDICATING OR WARNING SYSTEMS OR COMPONENTS	6.2
B588 BENCH CHECK TEMPERATURE CONTROL SYSTEM COMPONENTS	6.1

AVERAGE DIFFICULTY

TASK	DIFFICULTY RATING
P643 TROUBLESHOOT PRECOOLERS OR HEAT EXCHANGERS	5.5
I344 TROUBLESHOOT CANOPY SEAL PRESSURIZATION SYSTEMS OR COMPONENTS	5.5
Q670 PERFORM OPERATIONAL CHECK OF BLEED AIR DISTRIBUTION OVERHEAT WARNING SYSTEMS OR COMPONENTS	5.5
L460 TROUBLESHOOT AIRCRAFT DEFROSTING OR DEFOGGING SYSTEMS OR COMPONENTS	5.5
P630 REMOVE OR INSTALL PRECOOLERS OR HEAT EXCHANGERS	5.4
P609 PERFORM SERVICEABILITY CHECK OF CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	5.3
P607 PERFORM OPERATIONAL CHECK OF TEMPERATURE CONTROL SYSTEMS OR COMPONENTS	5.3
H294 TROUBLESHOOT LIQUID OXYGEN CARTS	5.1
L462 TROUBLESHOOT ANTI-G SUIT SYSTEMS OR COMPONENTS	5.0
H298 TROUBLESHOOT OXYGEN REGULATORS	5.0
Q691 REMOVE OR INSTALL WING ANTI-ICING SYSTEMS OR COMPONENTS	5.0
I348 VISUALLY INSPECT CABIN PRESSURIZATION SYSTEMS	5.0
P592 PERFORM LEAKAGE CHECK OR AIR OPERATED FLOW OR PRESSURE CONTROL DEVICES	4.9
P623 REMOVE OR INSTALL AIR OPERATED FLOW OR PRESSURE CONTROL DEVICES	4.8
Q668 PERFORM LEAKAGE CHECK OF WING ANTI-ICING SYSTEM COMPONENTS	4.7
H283 REMOVE OR INSTALL OXYGEN INDICATING OR WARNING SYSTEM KIT COMPONENTS	4.6

TABLE 20
(CONTINUED)

REPRESENTATIVE OF DIFFERENT TASKS RATED ABOVE AVERAGE, AVERAGE
AND BELOW AVERAGE DIFFICULTY

BELOW AVERAGE DIFFICULTY

TASK	DIFFICULTY RATING
P652 VISUALLY INSPECT TEMPERATURE CONTROL SYSTEMS OR COMPONENTS	4.4
L428 PERFORM OPERATIONAL CHECK OF ANTI-G SUIT VALVES	4.4
L473 VISUALLY INSPECT AIRCRAFT EXPANSION COOLING AIR CONDITIONING SYSTEMS OR COMPONENTS	4.3
H296 TROUBLESHOOT OXYGEN HOT PURGING KITS	4.3
P645 VISUALLY INSPECT AIR OPERATED FLOW OR PRESSURE CONTROL DEVICES	4.3
I349 VISUALLY INSPECT CANOPY SEAL PRESSURIZATION SYSTEMS	4.3
L433 PERFORM OPERATIONAL CHECK OF RAIN REMOVAL SYSTEMS	4.2
P651 VISUALLY INSPECT PRECOOLERS OR HEAT EXCHANGERS	4.2
P603 PERFORM OPERATIONAL CHECK OR ELECTRONIC COOLING FANS	4.2
F137 PERFORM LEAKAGE CHECK OF PORTABLE FIRE EXTINGUISHING SYSTEMS OR COMPONENTS	4.1
H252 PERFORM LEAKAGE CHECK OF OXYGEN REGULATORS	4.0
H286 SERVICE AIRCRAFT LIQUID OXYGEN SYSTEMS	4.0
H255 PERFORM OPERATIONAL CHECK OF GASEOUS OXYGEN CARTS	3.8
R713 PERFORM RECEIVING INSPECTIONS OF EQUIPMENT	3.7
L475 VISUALLY INSPECT ANTI-G SUIT VALVES	3.5

JOB DIFFICULTY

Based on the amount of time spent, the number of tasks performed, and the difficulty ratings assigned to the tasks the relative difficulty of jobs of various groups of incumbents can be calculated. The job difficulty, or Job Difficulty Index (JDI) for DAFSC, AFMS and functional groups is presented in Table 21. A JDI of 13 is defined as average. A JDI of 9.0 would be considered low, and a JDI of 18.0 would be considered fairly high.

As shown in Table 21, there is a steady increase in the JDI from 3- to 5-skill level and 5- to 7-skill level. This indicates that the factors involved in computing JDI show a steady increase in the difficulty of the job. The slight decline in JDI from the 7- to the 9-skill level is due to the smaller number of tasks performed by the 9-skill level respondents. The average number of tasks performed by 7-skill level respondents is 163 versus 119 for 9-skill level personnel.

There is a similar pattern of increasing JDI with Active Federal Military Service (AFMS) time. The JDI steadily increases from a low of 11.5 (for the 6-24 months AFMS group) by approximately one point intervals to 15.5 (for the 145-192 months AFMS group). There is then a slight drop in the JDI for the 193-240 and the 241+ months AFMS groups. This drop is again due to a decrease in the mean number of tasks performed by the group members.

TABLE 21

JOB DIFFICULTY INDEX (JDI) RATINGS FOR SELECTED GROUPS OF RESPONDENTS

<u>GROUP</u>	<u>JOB DIFFICULTY INDEX</u>
DAFSC 42331	10.6
DAFSC 42351	12.6
DAFSC 42371	14.7
DAFSC 42396	14.1
DAFSC 42351, ASSIGNED CONUS	12.5
DAFSC 42351, ASSIGNED OVERSEAS	13.2

<u>GROUP</u>	<u>JOB DIFFICULTY INDEX</u>
6-24 MOS AFMS	11.5
25-48 MOS AFMS	12.5
49-96 MOS AFMS	13.4
97-144 MOS AFMS	14.3
145-192 MOS AFMS	15.5
193-240 MOS AFMS	14.7
241+ MOS AFMS	14.0

TABLE 21
(CONTINUED)

JOB DIFFICULTY INDEX (JDI) RATINGS
FOR SELECTED GROUPS OF RESPONDENTS

GROUP	JOB DIFFICULTY INDEX
GRP249 OXYGEN, AIR CONDITIONING, BLEED AIR DISTRIBUTION SYSTEMS TECHNICIANS	20.3
GRP376 AIR CONDITIONING LIQUID OXYGEN AND BLEED AIR TECHNICIANS	16.7
GRP373 PRESSURIZATION AIR CONDITIONING AND AUXILIARY AIR SYSTEMS TECHNICIANS	17.9
GRP409 PRESSURIZATION AND WING ANTI-ICING TECHNICIANS	17.3
GRP250 OXYGEN AND FIRE EXTINGUISHING SYSTEMS TECHNICIANS	16.7
GRP255 WORKING SUPERVISORS (SHIFT SUPER- VISORS, ASSISTANT NCOIC'S)	17.6
GRP256 NCOIC ENVIRONMENTAL CONTROL	18.8
GRP333 TROUBLE ANALYSIS TECHNICIANS	13.1
GRP348 ANTI-ICING, ICE DETECTION SYSTEMS TECHNICIANS	13.0
GRP767 AIR CONDITIONING AND AUXILIARY AIR TECHNICIANS	11.8
GRP288 WING ANTI-ICING TECHNICIANS	13.2
GRP317 LIQUID CYCLE REFRIGERATION TECHNICIANS	13.1
GRP258 AIR CONDITIONING AND FIRE EXTINGUISHING SYSTEMS SPECIALISTS	13.9
GRP145 LIQUID OXYGEN SYSTEM SPECIALISTS	14.2
GRP138 OXYGEN SYSTEM SPECIALISTS	6.8
GRP124 PRESSURIZATION, AIR CONDITIONING SYSTEMS TECHNICIAN/SUPERVISORS	14.5
GRP092 BLEED AIR AND AIR CONDITIONING SYSTEMS REPAIRMEN	9.9
GRP158 PRESSURIZATION/OXYGEN ANTI-G SUIT SYSTEMS SPECIALISTS	9.0
GRP160 AIR CONDITIONING AND BOUNDARY LAYER CONTROL SYSTEMS SPECIALISTS	10.7
GRP163 OXYGEN AND PRESSURIZATION SYSTEMS SPECIALISTS	8.0
GRP151 AIR CONDITIONING, HEATING AND BLEED AIR SYSTEMS SPECIALISTS	9.7
GRP142 OXYGEN, BLEED AIR DISTRIBUTION AND PRESSURIZATION SYSTEMS SPECIALISTS	7.6
GRP096 OXYGEN AND FIRE EXTINGUISHING SYSTEMS SPECIALISTS	10.8
GRP176 AIR CONDITIONING, HEATING, AUXILIARY AIR, AND OXYGEN SYSTEMS SPECIALISTS	10.7
GRP166 C-5 ATM AND FIRE EXTINGUISHING SYSTEMS SPECIALISTS	8.3
GRP079 OXYGEN SYSTEM SPECIALISTS	4.3
GRP029 APPRENTICES AND BLEED AIR DISTRIBUTION SPECIALISTS	2.0
GRP149 SECTION NCOIC'S	12.6
GRP169 TECHNICAL SCHOOL INSTRUCTOR/ SUPERVISORS	11.9
GRP155 ENVIRONMENTAL TESTING AND DEVELOPMENT TECHNICIANS	10.9
GRP141 TECHNICAL SCHOOL INSTRUCTORS	7.1

COMPARISON OF SPECIALTY TRAINING STANDARD WITH JOB PERFORMANCE DATA

The Specialty Training Standard (STS) for the Aircraft Environmental Systems Career Ladder and the job inventory were similar in that the duties of the inventory were parallel to the main paragraphs of the STS. However, the organization and level of specialty of the subparagraphs was not similar to the tasks within the job inventory duty sections. Three duties were found where tasks were performed by only small percentages of incumbents. These duties were Maintaining Aircraft Turbine Driven Starters, Duty J, (STS Paragraph 24); Maintaining Auxiliary Air Systems, Duty L, (STS paragraph 17); and Maintaining Liquid Cycle Refrigeration Systems, Duty N, (STS paragraph 25). Although the STS codings are relatively low in comparison to other paragraphs, they seem appropriate.

One duty, Maintaining Aircraft Miscellaneous Equipment (Duty G) was not reflected in the STS. Most tasks in this duty were performed by only small percentages of personnel. However, several tasks dealing with boundary layer control systems showed dramatically higher percentages of personnel performing. The data support inclusion of miscellaneous equipment in the STS with relatively higher codings for subparagraphs dealing with the boundary layer control system than with other systems. With this one exception, the STS for this career ladder appears adequate.

COMPARISON OF JOB PERFORMANCE DATA WITH THE TRAINING COURSE 3ABR42331

Since the criterion objectives from the Plan of Instructions (POI) for 3ABR42331, Aircraft Environmental Systems Repairman and tasks statements from the job inventory could not be directly matched, this section will discuss what is performed and what is not performed by first-job assignment airmen (6-24 mos AFMS). The two documents could not be exactly matched because: (1) the STS is concerned with systems within different types of aircraft; (2) the task list was written and organized with respect to the environmental systems alone; (3) the level of specificity of the criterion objectives were generally broader than the job inventory tasks; and (4) many of the POI criterion objectives dealt with maintenance on environmental systems trainers and the tasks were based on total aircraft systems and components.

According to ATCR 52-22, Attachment 1, Paragraph 2b, for a task to be included in resident technical training a minimum of 30 percent of first-job assignment airmen should be performing that task. There are 180 tasks which are performed by 30 percent or more first-job assignment respondents. Most of these tasks seem to be covered by the 3ABR42331 Course. Tasks related to Performing Air Conditioning System Functions (Duty P), Maintaining Aircraft Oxygen Systems (Duty H), Performing Bleed Air Distribution System Functions (Duty Q), Maintaining Auxiliary Air Systems (Duty L) and Maintaining Aircraft Pressurization Systems (Duty I) contributed 156 of the 180 tasks. The remaining 24 tasks were from five other duties. Only two of the 12 tasks from Performing General Shop Maintenance (Duty R) were of the type that might require technical training. These tasks were "Perform Receiving Inspections of Equipment" and "Treat Corrosion Areas on Aircraft Environmental Systems". The remaining tasks were of a general nature, such as, "paint walls", and "wash or mop floors". Examples of some tasks performed by more than 30 percent or more first job assignment airmen can be found in Table 13.

The survey also collected information on the types of aircraft these personnel work on in the course of their environmental systems maintenance. Overall, 99 percent of the survey respondent indicated that they were currently working on aircraft. Of all the aircraft listed, those presented in Table 22 are the ones on which larger percentages of survey respondents reported working.

TABLE 22

REPRESENTATIVE AIRCRAFT WORKED ON BY AIRMEN WITH 6-24 MOS AFMS

<u>AIRCRAFT</u>	<u>PERCENT WORKING ON</u>
A-7D	6
B-52D	4
B-52G	11
C-5	14
C-130A	5
C-130B	4
C-130E	15
C-141	18
CH-3	4
EC-135	5
F-4C	13
F-4D	9
F-4E	11
F-15	4
F-106A	4
F-106B	4
F-111E	6
F-111F	7
FB-111	5
HC-130H	4
KC-135	18
T-33	12
T-39	5
OTHER	4

CONCLUSIONS

1. Task performance data were used to determine task inclusion in the basic resident course 3ABR42331. Overall the training course appears adequate.
2. There is a core of common tasks performed by large percentages of DAFSC 423X1 personnel.

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APPENDIX A

1. The numerical values on the job interest scale are as follows:

- 1 = Extremely Dull
- 2 = Very Dull
- 3 = Fairly Dull
- 4 = So-So
- 5 = Fairly Interesting
- 6 = Very Interesting
- 7 = Extremely Interesting

2. The numerical values on the talents and training scales are as follows:

- 1 = Not At All
- 2 = Very Little
- 3 = Fairly Well
- 4 = Quite Well
- 5 = Very Well
- 6 = Excellently
- 7 = Perfectly

GROUP ID NUMBER AND TITLE: GRP249, OXYGEN, AIR CONDITIONING, BLEED
AIR DISTRIBUTION SYSTEMS TECHNICIANS

PERCENT OF SAMPLE: 4.6

MAJOR COMMAND DISTRIBUTION: AFSC 2% AFSC 6% MAC 39% PACAF 6%
SAC 26% TAC 14% USAF 6% USAFSC 2%

LOCATION: CONUS 84% OVERSEAS 16%

DAFSC DISTRIBUTION: 42331 (6%), 42351 (53%), 42371 (37%), 42396 (2%),
NO REPLY (2%)

AVERAGE GRADE: 2.9 (33% DID NOT REPLY)

AMOUNT OF SUPERVISION: TWENTY-FOUR PEOPLE SUPERVISE AN AVERAGE OF SIX PEOPLE
EACH

EXPRESSED JOB INTEREST: 4.9

PERCEIVED UTILIZATION OF TALENTS: 3.8

PERCEIVED UTILIZATION OF TRAINING: 4.6

AVERAGE NUMBER OF TASKS PERFORMED: 380

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	17
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	14
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	12
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	8

FIVE REPRESENTATIVE TASKS:

<u>TASKS</u>	<u>PERCENT MEMBERS PERFORMING</u>
H261 PERFORM OPERATIONAL CHECK OF OXYGEN REGULATORS	100
H300 VISUALLY INSPECT AIRCRAFT LIQUID OXYGEN SYSTEMS OR COMPONENTS SUCH AS CONVERTERS	100
Q699 VISUALLY INSPECT AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	98
P602 PERFORM OPERATIONAL CHECK OF CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	96
H298 TROUBLESHOOT OXYGEN REGULATORS	92

REPRESENTATIVE AIRCRAFT MAINTAINED

B-52D	C-9	C-135	F-4C,D,E	T-33
C-5	C-130E	C-141	KC-135	T-29

GROUP ID NUMBER AND TITLE: GRP376, AIR CONDITIONING LIQUID OXYGEN AND BLEED AIR TECHNICIANS

PERCENT OF SAMPLE: 4.4

MAJOR COMMAND DISTRIBUTION: AFSC 2% MAC 61% PACAF 2% SAC 25%
TAC 2% USAF 6% OTHER 2%

LOCATION: CONUS 75% OVERSEAS 25%

DAFSC DISTRIBUTION: 42331 (4%), 42351 (78%), 42371 (18%)

AVERAGE GRADE: 2.8 (25% DID NOT REPLY)

AMOUNT OF SUPERVISION: NINE PEOPLE SUPERVISE AN AVERAGE OF SIX PEOPLE EACH

EXPRESSED JOB INTEREST: 4.8

PERCEIVED UTILIZATION OF TALENTS: 3.9

PERCEIVED UTILIZATION OF TRAINING: 3.9

AVERAGE NUMBER OF TASKS PERFORMED: 214

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	23
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	21
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	16
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	8

FIVE REPRESENTATIVE TASKS:

<u>TASKS</u>	<u>PERCENT MEMBERS PERFORMING</u>
Q688 REMOVE OR INSTALL BLEED AIR DUCTING SYSTEMS	100
P652 VISUALLY INSPECT TEMPERATURE CONTROL SYSTEMS OR COMPONENTS	100
Q665 PERFORM LEAKAGE CHECK OF BLEED AIR DUCTING SYSTEMS OR COMPONENTS	98
P602 PERFORM OPERATIONAL CHECK OF CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	98
H291 TROUBLESHOOT AIRCRAFT LIQUID OXYGEN SYSTEMS OR COMPONENTS SUCH AS CONVERTERS	96

REPRESENTATIVE AIRCRAFT MAINTAINED

B-52G	C-130E	C-141	RC-135
C-5	C-135	EC-135	T-39

GROUP ID NUMBER AND TITLE: GRP373, PRESSURIZATIONS AIR CONDITIONING
AND AUXILIARY AIR SYSTEMS TECHNICIANS

PERCENT OF SAMPLE: 3.9

MAJOR COMMAND DISTRIBUTION: ADC 16% AFSC 14% ATC 2% MAC 5%
TAC 54% USAF 7% OTHER 2%

LOCATION: CONUS 93% OVERSEAS 7%

DAFSC DISTRIBUTION: 42331 (14%), 42351 (70%), 42371 (16%)

AVERAGE GRADE: 3.1 (21% DID NOT REPLY)

AMOUNT OF SUPERVISION: FIFTEEN PEOPLE SUPERVISE AN AVERAGE OF FOUR
PEOPLE EACH

EXPRESSED JOB INTEREST: 4.2

PERCEIVED UTILIZATION OF TALENTS: 3.5

PERCEIVED UTILIZATION OF TRAINING: 3.3

AVERAGE NUMBER OF TASKS PERFORMED: 236

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	20
L MAINTAINING AUXILIARY AIR SYSTEMS	17
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	15
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	15
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	14

FIVE REPRESENTATIVE TASKS:

<u>TASKS</u>	<u>PERCENT MEMBERS PERFORMING</u>
I343 TROUBLESHOOT CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	100
I320 PERFORM LEAKAGE CHECK OF CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	100
I344 TROUBLESHOOT CANOPY SEAL PRESSURIZATION SYSTEMS OR COMPONENTS	98
L447 REMOVE OR INSTALL ANTI-G SUIT VALVES	98
H307 VISUALLY INSPECT OXYGEN REGULATORS	95

REPRESENTATIVE AIRCRAFT MAINTAINED

A-7D F-4C,D,E F-111A,D,E,F T-39
C-130A F-106,A,B T-38

GROUP ID NUMBER AND TITLE: GRP409, PRESSURIZATION AND WING ANTI-ICING
TECHNICIANS

PERCENT OF SAMPLE: 3.2

MAJOR COMMAND DISTRIBUTION: ADC 3% AFSC 6% MAC 3% USAFE 14%
PACAF 20% SAC 29% TAC 6%

LOCATION: CONUS 40% OVERSEAS 57% NO REPLY 3%

DAFSC DISTRIBUTION: 42351 (77%), 42371 (23%)

AVERAGE GRADE: 2.5 (.11% DID NOT REPLY)

AMOUNT OF SUPERVISION: ELEVEN PEOPLE SUPERVISE AN AVERAGE OF FOUR PEOPLE
EACH

EXPRESSED JOB INTEREST: 4.3

PERCEIVED UTILIZATION OF TALENTS: 3.0

PERCEIVED UTILIZATION OF TRAINING: 3.5

AVERAGE NUMBER OF TASKS PERFORMED: 232

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
P PERFORMING AIR CONDITIONING FUNCTIONS	18
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	16
O PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	14
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	13
L MAINTAINING AUXILIARY AIR SYSTEMS	11

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
I343 TROUBLESHOOT CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	100
Q691 REMOVE OR INSTALL WING ANTI-ICING SYSTEMS OR COMPONENTS	97
P638 TROUBLESHOOT CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	94
Q697 TROUBLESHOOT WING ANTI-ICING SYSTEMS	94
Q668 PERFORMING LEAKAGE CHECK OF WING ANTI-ICING SYSTEMS OR COMPONENTS	86

REPRESENTATIVE AIRCRAFT MAINTAINED

C-130A,	DC-130	F-4C,D,E	T-33	U-2
CH-3	EB-57E	HC-130H	T-39	UH-1N

GROUP ID NUMBER AND TITLE: GRP250, OXYGEN AND FIRE EXTINGUISHING SYSTEMS
TECHNICIANS

PERCENT OF SAMPLE: .5

MAJOR COMMAND DISTRIBUTION: ADC 40% ATC 20% MAC 40%

LOCATION: CONUS 100%

DAFSC DISTRIBUTION: 42351 (80%), 42371 (20%)

AVERAGE GRADE: 3.3 (40% DID NOT REPLY)

AMOUNT OF SUPERVISION: TWO PEOPLE SUPERVISE AN AVERAGE OF TWO PEOPLE
EACH

EXPRESSED JOB INTEREST: 4.6

PERCEIVED UTILIZATION OF TALENTS: 3.6

PERCEIVED UTILIZATION OF TRAINING: 3.6

AVERAGE NUMBER OF TASKS PERFORMED: 210

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	19
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	17
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	14
F MAINTAINING AIRCRAFT FIRE EXTINGUISHING SYSTEMS	13

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
F149 REMOVE OR INSTALL FIXED FIRE EXTINGUISHING SYSTEMS	100
F146 REMOVE OR INSTALL FIRE EXTINGUISHING SYSTEM RECHARGING EQUIPMENT OR COMPONENTS	100
H256 PERFORM OPERATIONAL CHECK OF HIGH PRESSURE GASEOUS OXYGEN SYSTEMS OR COMPONENTS	100
H261 PERFORM OPERATIONAL CHECK OF OXYGEN REGULATORS	100
P608 PERFORM OPERATIONAL CHECK OF TEMPERATURE CONTROL SYSTEMS OR COMPONENTS	100

REPRESENTATIVE AIRCRAFT MAINTAINED

C-135 C-140 T-37
C-137 T-33

GROUP ID NUMBER AND TITLE: GRP255, WORKING SUPERVISORS (SHIFT SUPERVISORS, ASSISTANT NCOICS)

PERCENT OF SAMPLE: 5.7

MAJOR COMMAND DISTRIBUTION: ADC 8% ATC 6% PACAF 5% SAC 5%
TAC 41% USAFE 32% OTHER 2% NO REPLY 2%

LOCATION: CONUS 60% OVERSEAS 40%

DAFSC DISTRIBUTION: 42351 (35%), 42371 (64%), NO REPLY (1%)

AVERAGE GRADE: 2.5 (46% DID NOT REPLY)

AMOUNT OF SUPERVISION: FORTY-FIVE PEOPLE SUPERVISE AN AVERAGE OF FIVE PEOPLE EACH

EXPRESSED JOB INTEREST: 5.2

PERCEIVED UTILIZATION OF TALENTS: 4.0

PERCEIVED UTILIZATION OF TRAINING: 4.2

AVERAGE NUMBER OF TASKS PERFORMED: 213

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	15
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	14
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	12
L MAINTAINING AUXILIARY AIR SYSTEMS	11
B DIRECTING AND IMPLEMENTING	9

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
I343 TROUBLESHOOT CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	98
P644 TROUBLESHOOT TEMPERATURE CONTROL SYSTEMS OR COMPONENTS	90
A24 PLAN OR SCHEDULE WORK ASSIGNMENTS	87
B62 REVIEW MAINTENANCE DATA COLLECTION RECORD FORMS (AFTO FORM 349)	86
C66 ANALYZE CAUSES OF AIRCRAFT ENVIRONMENTAL SYSTEM MALFUNCTIONS	83

REPRESENTATIVE AIRCRAFT MAINTAINED

F-4C,D,E KC-135 T-33 T-38

GROUP ID NUMBER AND TITLE: GRP256, NCOIC ENVIRONMENTAL CONTROL

PERCENT OF SAMPLE: 4.3

MAJOR COMMAND DISTRIBUTION: AAC 4% AFSC 4% MAC 32% SAC 43%
TAC 13% USAFE 2% OTHER 2%

LOCATION: CONUS 75% OVERSEAS 25%

DAFSC DISTRIBUTION: 42351 (13%), 42371 (87%)

AVERAGE GRADE: (64% DID NOT REPLY)

AMOUNT OF SUPERVISION: FORTY PEOPLE SUPERVISE AN AVERAGE OF EIGHT PEOPLE EACH

EXPRESSED JOB INTEREST: 5.4

PERCEIVED UTILIZATION OF TALENTS: 4.2

PERCEIVED UTILIZATION OF TRAINING: 4.3

AVERAGE NUMBER OF TASKS PERFORMED: 231

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
B DIRECTING AND IMPLEMENTING	14
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	13
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	12
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	11
A ORGANIZING AND PLANNING	10
C INSPECTING AND EVALUATING	10

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
C69 CONDUCT SPOT CHECKS ON ENVIRONMENTAL MAINTENANCE	98
B39 COUNSEL PERSONNEL ON PERSONAL OR MILITARY PROBLEMS	98
C76 EVALUATE PERFORMANCE OF SUBORDINATES	96
I343 TROUBLESHOOT CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	96
A8 DETERMINE WORK PRIORITIES	79

REPRESENTATIVE AIRCRAFT MAINTAINED

B-52G	C-130E	C-141	T-39
C-5	C-135	HC-130H	

GROUP ID NUMBER AND TITLE: GRP333, TROUBLE ANALYSIS TECHNICIANS

PERCENT OF SAMPLE: 6%

MAJOR COMMAND DISTRIBUTION: ADC 2% PACAF 18% SAC 3% TAC 43%
USAFA 2% USAFE 29% OTHER 4%

LOCATION: CONUS 47% OVERSEAS 53%

DAFSC DISTRIBUTION: 42331 (4%), 42351 (75%), 42371 (21%)

AVERAGE GRADE: 2.9 (23% DID NOT REPLY)

AMOUNT OF SUPERVISION: SEVENTEEN PEOPLE SUPERVISE AN AVERAGE OF THREE PEOPLE EACH

EXPRESSED JOB INTEREST: 4.2

PERCEIVED UTILIZATION OF TALENTS: 3.5

PERCEIVED UTILIZATION OF TRAINING: 3.5

AVERAGE NUMBER OF TASKS PERFORMED: 137

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	20
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	16
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	15
L MAINTAINING AUXILIARY AIR SYSTEMS	14
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	12

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
Q688 REMOVE OR INSTALL BLEED AIR DUCTING SYSTEMS OR COMPONENTS	99
Q662 PERFORM LEAKAGE CHECK OF AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	99
G209 REMOVE OR INSTALL BOUNDARY LAYER AIR CONTROL SYSTEM COMPONENTS	96
H252 PERFORM LEAKAGE CHECK OF OXYGEN REGULATORS	94
P638 TROUBLESHOOT CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	93

REPRESENTATIVE AIRCRAFT MAINTAINED

C-130E	CH-3	F-4C	F-4D
F-4E	F-15	HH-53	KC-135
T-29	T-33	T-38	T-39

GROUP ID NUMBER AND TITLE: GRP348, ANTI-ICING, ICE DETECTION SYSTEMS
TECHNICIANS

PERCENT OF SAMPLE: 6.9

MAJOR COMMAND DISTRIBUTION: ADC 8% AFSC 1% ATC 21% SAC 15%
USAFE 13% TAC 40% OTHER 3%

LOCATION: CONUS 84% OVERSEAS 16%

DAFSC DISTRIBUTION: 42331 (16%), 42351 (78%), 42371 (7%)

AVERAGE GRADE: 3.0 (16% DID NOT REPLY)

AMOUNT OF SUPERVISION: TWELVE PEOPLE SUPERVISE AN AVERAGE OF THREE
PEOPLE EACH

EXPRESSED JOB INTEREST: 4.7

PERCEIVED UTILIZATION OF TALENTS: 3.3

PERCEIVED UTILIZATION OF TRAINING: 3.8

AVERAGE NUMBER OF TASKS PERFORMED: 145

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	23
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	17
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	16
L MAINTAINING AUXILIARY AIR SYSTEMS	15
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	13

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
Q662 PERFORM LEAKAGE CHECK OF AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	100
P638 TROUBLESHOOT CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	96
Q685 REMOVE OR INSTALL AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	95
P631 REMOVE OR INSTALL TEMPERATURE CONTROL SYSTEM COMPONENTS	95
I338 REMOVE OR INSTALL CABIN PRESSURIZATION SYSTEM COMPONENTS	93

NOTE: THIS GROUP WAS DISTINGUISHED FROM OTHERS BY THE PERFORMANCE OF
TASKS RELATED TO MAINTAINING ENGINE INTAKE ICE DETECTION SYSTEMS
BY APPROXIMATELY 54 PERCENT OF THIS GROUP.

REPRESENTATIVE AIRCRAFT MAINTAINED

A-7D	F-106A,B	KC-135	T-38
F-4C	F-111A,D,E,F	T-33	
F-4E	FB-111	T-37	

GROUP ID NUMBER AND TITLE: GRP767, AIR CONDITIONING AND AUXILIARY AIR
TECHNICIANS

PERCENT OF SAMPLE: .5

MAJOR COMMAND DISTRIBUTION: ADC 100%

LOCATION: CONUS 100%

DAFSC DISTRIBUTION: 42331 (33%), 42351 (50%), 42371 (17%)

AVERAGE GRADE: 4.2

AMOUNT OF SUPERVISION: FOUR PEOPLE SUPERVISE AN AVERAGE OF FOUR
PEOPLE EACH

EXPRESSED JOB INTEREST: 3.8

PERCEIVED UTILIZATION OF TALENTS: 3.8

PERCEIVED UTILIZATION OF TRAINING: 3.8

AVERAGE NUMBER OF TASKS PERFORMED: 131

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
L MAINTAINING AUXILIARY AIR SYSTEMS	19
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	18
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	15
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	14
R PERFORMING GENERAL SHOP MAINTENANCE	10

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
P594 PERFORM LEAKAGE CHECK OF CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	100
Q665 PERFORM LEAKAGE CHECK OF BLEED AIR DUCTING SYSTEMS OR COMPONENTS	100
R719 SOLDER AIR CONDITIONING TEMPERATURE SYSTEM COMPONENTS	100
L445 REMOVE OR INSTALL AIRCRAFT EXPANSION COOLING AIR CONDITIONING SYSTEMS OR COMPONENTS	100
L417 PERFORM LEAKAGE CHECK OF AIRCRAFT EXPANSION COOLING AIR CONDITIONING SYSTEMS	100

REPRESENTATIVE AIRCRAFT MAINTAINED

F-106A,B T-33

GROUP ID NUMBER AND TITLE: GRP288, WING ANTI-ICING TECHNICIANS

PERCENT OF SAMPLE: 13

MAJOR COMAMND DISTRIBUTION: AAC 1% AFLC 1% AFSC 1% ATC 4%
MAC 85% SAC 4% TAC 2% OTHER 1%

LOCATION: CONUS 86% OVERSEAS 14%

DAFSC DISTRIBUTION: 42331 (5%), 42351 (77%), 42371 (18%)

AVERAGE GRADE: 3.1 (15% DID NOT REPLY)

AMOUNT OF SUPERVISION: THIRTY-ONE PEOPLE SUPERVISE AN AVERAGE OF THREE PEOPLE EACH

EXPRESSED JOB INTEREST: 4.6

PERCEIVED UTILIZATION OF TALENTS: 3.4

PERCEIVED UTILIZATION OF TRAINING: 3.9

AVERAGE NUMBER OF TASKS PERFORMED: 144

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	25
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	22
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	16
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	8

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
Q663 PERFORM LEAKAGE CHECK OF BLEED AIR DISTRIBUTION SYSTEMS OR COMPONENTS	98
Q686 REMOVE OR INSTALL BLEED AIR DISTRIBUTION OVER- HEAT WARNING SYSTEM COMPONENTS	93
Q692 TROUBLESHOOT BLEED AIR DISTRIBUTION OVERHEAT WARNING SYSTEMS OR COMPONENTS	92
P605 PERFORM OPERATIONAL CHECK OF FLOOR HEATING SYSTEMS OR COMPONENTS	90
Q691 REMOVE OR INSTALL WING ANTI-ICING SYSTEMS OR COMPONENTS	87

REPRESENTATIVE AIRCRAFT MAINTAINED

C-5	CH-3	KC-135
C-130A,B,D,E	HC-130H,P,N	T-39
C-141	HH-53	UH-1N,P

GROUP ID NUMBER AND TITLE: GRP317, LIQUID CYCLE REFRIGERATION TECHNICIANS

PERCENT OF SAMPLE: 5.5

MAJOR COMMAND DISTRIBUTION: SAC 97% TAC 2% OTHER 2%

LOCATION: CONUS 95% OVERSEAS 5%

DAFSC DISTRIBUTION: 42331 (3%), 42351 (79%), 42371 (18%)

AVERAGE GRADE: 2.7 (25% DID NOT REPLY)

AMOUNT OF SUPERVISION: FOURTEEN PEOPLE SUPERVISE AN AVERAGE OF THREE PEOPLE EACH

EXPRESSED JOB INTEREST: 4.5

PERCEIVED UTILIZATION OF TALENTS: 3.4

PERCEIVED UTILIZATION OF TRAINING: 3.8

AVERAGE NUMBER OF TASKS PERFORMED: 139

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	22
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	21
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	18
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	10

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
H291 TROUBLESHOOT AIRCRAFT LIQUID OXYGEN SYSTEMS OR COMPONENTS SUCH AS CONVERTERS	100
P638 TROUBLESHOOT CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	100
H398 TROUBLESHOOT OXYGEN REGULATORS	97
I343 TROUBLESHOOT CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	97
I338 REMOVE OR INSTALL CABIN PRESSURIZATION SYSTEM COMPONENTS	95

NOTE: THIS GROUP WAS DISTINGUISHED BY THE PERFORMANCE OF TASKS RELATING TO THE MAINTENANCE OF LIQUID CYCLE REFRIGERATION SYSTEMS (DUTY N), BUT THESE TASKS ONLY OCCURRED AT ABOUT THE 50 PERCENT TIME SPENT POINT AND PERFORMED BY ONLY ABOUT 54 PERCENT OF THE GROUP.

REPRESENTATIVE AIRCRAFT MAINTAINED

B-52D, F, G, H	F-15	T-29
C-135	KC-135	T-39
EC-135	RC-135	UH-1N

GROUP ID NUMBER AND TITLE: GRP258, AIR CONDITIONING AND FIRE EXTINGUISHING
SYSTEMS SPECIALISTS

PERCENT OF SAMPLE: 2

MAJOR COMMAND DISTRIBUTION: AAC 5% ADC 5% AFSC 5% AFCS 5%
HQCOMD 5% MAC 27% TAC 27% PACAF 9%
USAFE 13%

LOCATION: CONUS 73% OVERSEAS 27%

DAFSC DISTRIBUTION: 42331 (5%), 42351 (86%), 42371 (9%)

AVERAGE GRADE: 2.4 (32% DID NOT REPLY)

AMOUNT OF SUPERVISION: FIVE PEOPLE SUPERVISE AN AVERAGE OF ONE PEOPLE
EACH

EXPRESSED JOB INTEREST: 5.0

PERCEIVED UTILIZATION OF TALENTS: 3.6

PERCEIVED UTILIZATION OF TRAINING: 3.9

AVERAGE NUMBER OF TASKS PERFORMED: 170

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	18
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	17
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	16
F MAINTAINING AIRCRAFT FIRE EXTINGUISHING SYSTEMS	12

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
I343 TROUBLESHOOT CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	100
Q663 PERFORM LEAKAGE CHECK OF BLEED AIR DISTRIBUTION SYSTEMS OR COMPONENTS	100
P693 TROUBLESHOOT BLEED AIR DUCTING SYSTEMS OR COMPONENTS	100
F160 VISUALLY INSPECT FIXED FIRE EXTINGUISHING SYSTEMS	100
F148 REMOVE OR INSTALL FIXED FIRE EXTINGUISHING SYSTEM COMPONENTS	95

REPRESENTATIVE AIRCRAFT MAINTAINED

C-9	CH-53	O-2A
C-130A,B,E	EC-135	OV-10A
C-135	HC-130H,P	T-33
C-137	HH-53	T-39
C-140	KC-135	VC-6A

GROUP ID NUMBER AND TITLE: GRP145, LIQUID OXYGEN SYSTEM SPECIALISTS

PERCENT OF SAMPLE: 1.3

MAJOR COMMAND DISTRIBUTION: ADC 7% ATC 7% MAC 43% PACAF 7%
SAC 29% USAFE 7%

LOCATION: CONUS 86% OVERSEAS 14%

DAFSC DISTRIBUTION: 42331 (14%), 42351 (64%), 42371 (21%)

AVERAGE GRADE: 3.8

AMOUNT OF SUPERVISION: FOUR PEOPLE SUPERVISE AN AVERAGE OF THREE PEOPLE EACH

EXPRESSED JOB INTEREST: 4.6

PERCEIVED UTILIZATION OF TALENTS: 3.6

PERCEIVED UTILIZATION OF TRAINING: 3.8

AVERAGE NUMBER OF TASKS PERFORMED: 175

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	33
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	15
L MAINTAINING AUXILIARY AIR SYSTEMS	11
J MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	10

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
H291 TROUBLESHOOT AIRCRAFT LIQUID OXYGEN SYSTEMS OR COMPONENTS	100
H249 PERFORM LEAKAGE CHECK OF LOW PRESSURE GASEOUS OXYGEN SYSTEMS OR COMPONENTS	100
H232 ADJUST AIRCRAFT LIQUID OXYGEN SYSTEM COMPONENTS SUCH AS CONVERTERS	93
Q699 VISUALLY INSPECT AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	93
L433 PERFORM OPERATIONAL CHECK OF RAIN REMOVAL SYSTEMS	86

REPRESENTATIVE AIRCRAFT MAINTAINED

C-130A,B,D,E C-141 F-4D,E

GROUP ID NUMBER AND TITLE: GRP138, OXYGEN SYSTEM SPECIALISTS

PERCENT OF SAMPLE: .6

MAJOR COMMAND DISTRIBUTION: AFLC 14% SAC 75% TAC 14%

LOCATION: CONUS 100%

DAFSC DISTRIBUTION: 42331 (29%), 42351 (57%), 42371 (14%)

AVERAGE GRADE: 3.0 (57% DID NOT REPLY)

AMOUNT OF SUPERVISION: ONE PERSON SUPERVISES THREE PEOPLE

EXPRESSED JOB INTEREST: 5.1

PERCEIVED UTILIZATION OF TALENTS: 3.1

PERCEIVED UTILIZATION OF TRAINING: 3.4

AVERAGE NUMBER OF TASKS PERFORMED: 108

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	25
R PERFORMING GENERAL SHOP MAINTENANCE	21
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	16
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	14

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
H291 TROUBLESHOOT AIRCRAFT LIQUID OXYGEN SYSTEMS OR COMPONENTS SUCH AS CONVERTERS	100
H303 VISUALLY INSPECT LIQUID OXYGEN CARTS	100
H248 PERFORM LEAKAGE CHECK OF LIQUID OXYGEN CARTS	100
R733 WORK OR MOP FLOORS	100
R730 STENCIL, DECAL OR PAINT INSTRUCTIONS OR IDENTIFIERS ON EQUIPMENT	71

REPRESENTATIVE AIRCRAFT MAINTAINED

B-52D,G F-4C,D,E OTHER THAN THOSE LISTED IN SURVEY

GROUP ID NUMBER AND TITLE: GRP124, PRESSURIZATION, AIR CONDITIONING
SYSTEMS TECHNICIAN/SUPERVISORS

PERCENT OF SAMPLE: 1

MAJOR COMMAND DISTRIBUTION: ADC 15% ATC 15% SAC 15% TAC 54%

LOCATION: CONUS 100%

DAFSC DISTRIBUTION: 42351 (31%), 42371 (69%)

AVERAGE GRADE: 4.1

AMOUNT OF SUPERVISION: ELEVEN PEOPLE SUPERVISE AN AVERAGE OF FOUR
PEOPLE EACH

EXPRESSED JOB INTEREST: 5.1

PERCEIVED UTILIZATION OF TALENTS: 4.2

PERCEIVED UTILIZATION OF TRAINING: 4.0

AVERAGE NUMBER OF TASKS PERFORMED: 139

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	17
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	14
B DIRECTING AND IMPLEMENTING	11
L MAINTAINING AUXILIARY AIR SYSTEMS	11

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
I344 TROUBLESHOOT CANOPY SEAL PRESSURIZATION SYSTEMS OR COMPONENTS	100
I320 PERFORM LEAKAGE CHECK OF CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	100
C69 CONDUCT SPOT CHECKS ON ENVIRONMENTAL MAINTENANCE	92
P644 TROUBLESHOOT TEMPERATURE CONTROL SYSTEMS OR COMPONENTS	92
C66 ANALYZE CAUSES OF AIRCRAFT ENVIRONMENTAL SYSTEM MALFUNCTIONS	85

REPRESENTATIVE AIRCRAFT MAINTAINED

F-4C, D,E F-106A,B F-111F FB-111 T-33

GROUP ID NUMBER AND TITLE: GRP092, BLEED AIR AND AIR CONDITIONING
SYSTEMS REPAIRMEN

PERCENT OF SAMPLE: .6

MAJOR COMMAND DISTRIBUTION: MAC 67% SAC 17% USAF 17%

LOCATION: CONUS 67% OVERSEAS 33%

DAFSC DISTRIBUTION: 42331 (17%), 42351 (67%), 42371 (17%)

AVERAGE GRADE: 3.7

AMOUNT OF SUPERVISION: TWO PEOPLE SUPERVISE AN AVERAGE OF ONE PERSON
EACH

EXPRESSED JOB INTEREST: 5.3

PERCEIVED UTILIZATION OF TALENTS: 3.3

PERCEIVED UTILIZATION OF TRAINING: 3.7

AVERAGE NUMBER OF TASKS PERFORMED: 97

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	27
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	25
R PERFORMING GENERAL SHOP MAINTENANCE	10

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
Q662 PERFORM LEAKAGE CHECK OF AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	100
Q688 REMOVE OR INSTALL BLEED AIR DUCTING SYSTEMS OR COMPONENTS	100
P594 PERFORM LEAKAGE CHECK OF CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	100
P625 REMOVE OR INSTALL CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	83
C66 ANALYZE CAUSES OF AIRCRAFT ENVIRONMENTAL SYSTEM MALFUNCTIONS	83

REPRESENTATIVE AIRCRAFT MAINTAINED

AC-130E C-130A,B,D,E C-141

GROUP ID NUMBER AND TITLE: GRP158, PRESSURIZATION/OXYGEN ANTI-G
SUIT SYSTEMS SPECIALISTS

PERCENT OF SAMPLE: 4

MAJOR COMMAND DISTRIBUTION: ADC 19% AFSC 7% PACAF 5% ATC 7%
SAC 5% TAC 51% USAFE 7%

LOCATION: CONUS 84% OVERSEAS 16%

DAFSC DISTRIBUTION: 42331 (19%), 42350 (74%), 42371 (7%)

AVERAGE GRADE: 3.0 (16% DID NOT REPLY)

AMOUNT OF SUPERVISION: SEVEN PEOPLE SUPERVISE AN AVERAGE OF THREE
PEOPLE EACH

EXPRESSED JOB INTEREST: 4.2

PERCEIVED UTILIZATION OF TALENTS: 3.3

PERCEIVED UTILIZATION OF TRAINING: 3.4

AVERAGE NUMBER OF TASKS PERFORMED: 90

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	18
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	17
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	16
L MAINTAINING AUXILIARY AIR SYSTEMS	16
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	15

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
I321 PERFORM LEAKAGE CHECK OF CANOPY SEAL PRESSURIZATION SYSTEMS OR COMPONENTS	100
Q685 REMOVE OR INSTALL AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	91
Q662 PERFORM LEAKAGE CHECK OF AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	88
H276 REMOVE OR INSTALL AIRCRAFT LIQUID OXYGEN SYSTEM COMPONENTS SUCH AS CONVERTERS	84
H291 TROUBLESHOOT AIRCRAFT LIQUID OXYGEN SYSTEMS OR COMPONENTS SUCH AS CONVERTERS	81

REPRESENTATIVE AIRCRAFT MAINTAINED

F-4C,D,E	F-101B,F	F-106A,B
F-111D,E,F	KC-135	T-33
T-37	T-38	

GROUP ID NUMBER AND TITLE: GRP160, AIR CONDITIONING AND BOUNDARY LAYER
CONTROL SYSTEMS SPECIALISTS

PERCENT OF SAMPLE: .5

MAJOR COMMAND DISTRIBUTION: PACAF 20% TAC 40% USAF 40%

LOCATION: CONUS 20% OVERSEAS 80%

DAFSC DISTRIBUTION: 42331 (20%) 42351 (60%), 42371 (20%)

AVERAGE GRADE: 3.5 (20% DID NOT REPLY)

AMOUNT OF SUPERVISION: ONE PERSON SUPERVISES FOUR PEOPLE

EXPRESSED JOB INTEREST: 3.0

PERCEIVED UTILIZATION OF TALENTS: 3.6

PERCEIVED UTILIZATION OF TRAINING: 3.6

AVERAGE NUMBER OF TASKS PERFORMED: 89

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	31
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	18
L MAINTAINING AUXILIARY AIR SYSTEMS	12
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	10

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
G209 REMOVE OR INSTALL BOUNDARY LAYER AIR CONTROL SYSTEM COMPONENTS	100
P640 TROUBLESHOOT ELECTRONIC EQUIPMENT AIR CONDITIONING SYSTEMS OR COMPONENTS	100
P644 TROUBLESHOOT TEMPERATURE CONTROL SYSTEMS OR COMPONENTS	100
G220 TROUBLESHOOT BOUNDARY LAYER AIR CONTROL SYSTEMS OR COMPONENTS	100
I309 ADJUST CANOPY SEAL PRESSURIZATION SYSTEM COMPONENTS	100

REPRESENTATIVE AIRCRAFT MAINTAINED

F-4C,D,E T-39

GROUP NUMBER AND TITLE: GRP163, OXYGEN AND PRESSURIZATION SYSTEMS
SPECIALISTS

PERCENT OF SAMPLE: .8

MAJOR COMMAND DISTRIBUTION: ATC 44% TAC 56%

LOCATION: CONUS 89% OVERSEAS 11%

DAFSC DISTRIBUTION: 42331 (11%), 42351 (89%)

AVERAGE GRADE: 3.3 (22% DID NOT REPLY)

AMOUNT OF SUPERVISION: ONE PERSON SUPERVISES FOUR PEOPLE

EXPRESSED JOB INTEREST: 4.0

PERCEIVED UTILIZATION OF TALENTS: 3.1

PERCEIVED UTILIZATION OF TRAINING: 3.4

AVERAGE NUMBER OF TASKS PERFORMED: 68

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	27
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	27
L MAINTAINING AUXILIARY AIR SYSTEMS	16
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	13

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
I338 REMOVE OR INSTALL CABIN PRESSURIZATION SYSTEM COMPONENTS	100
H284 REMOVE OR INSTALL OXYGEN REGULATORS	100
H300 VISUALLY INSPECT AIRCRAFT LIQUID OXYGEN SYSTEMS OR COMPONENTS SUCH AS CONVERTERS	100
I344 TROUBLESHOOT CANOPY SEAL PRESSURIZATION SYSTEMS OR COMPONENTS	100
H291 TROUBLESHOOT AIRCRAFT LIQUID OXYGEN SYSTEMS OR COMPONENTS SUCH AS CONVERTERS	100

REPRESENTATIVE AIRCRAFT MAINTAINED

B-52F,G,H C-5 C-141 KC-135
RC-135

GROUP ID NUMBER AND TITLE: GRP151, AIR CONDITIONING, HEATING AND BLEED
AIR SYSTEMS SPECIALISTS

PERCENT OF SAMPLE: 3

MAJOR COMMAND DISTRIBUTION: ADC 3% MAC 39% SAC 46% TAC 9% OTHER 3%

LOCATION: CONUS 61 OVERSEAS 39

DAFSC DISTRIBUTION: 42331 (3%), 42351 (70%), 42371 (27%)

AVERAGE GRADE: 2.7

AMOUNT OF SUPERVISION: NINE PEOPLE SUPERVISE AN AVERAGE OF THREE PEOPLE
EACH

EXPRESSED JOB INTEREST: 6.8

PERCEIVED UTILIZATION OF TALENTS: 3.5

PERCEIVED UTILIZATION OF TRAINING: 3.9

AVERAGE NUMBER OF TASKS PERFORMED: 85

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	23
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	21
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	21

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
P631 REMOVE OR INSTALL TEMPERATURE CONTROL SYSTEM COMPONENTS	91
Q685 REMOVE OR INSTALL AIRCRAFT ENVIRONMENTAL DUCTING SYSEMS	88
Q687 REMOVE OR INSTALL BLEED AIR DISTRIBUTION SYSTEMS OR COMPONENTS	88
H284 REMOVE OR INSTALL OXYGEN REGULATORS	85
P644 TROUBLESHOOT TEMPERATURE CONTROL SYSTEM OR COMPONENTS	76

REPRESENTATIVE AIRCRAFT MAINTAINED

B-52F,G,H	C-5	C-141
KC-135	RC-135	

GROUP ID NUMBER AND TITLE: GRP142, OXYGEN, BLEED AIR DISTRIBUTION AND
PRESSURIZATION SYSTEMS SPECIALISTS

PERCENT OF SAMPLE: .5

MAJOR COMMAND DISTRIBUTION: SAC 100%

LOCATION: CONUS 100%

DAFSC DISTRIBUTION: 42331 (17%), 42351 (83%)

AVERAGE GRADE: 3.5

AMOUNT OF SUPERVISION: NONE

EXPRESSED JOB INTEREST: 4.0

PERCEIVED UTILIZATION OF TALENTS: 3.0

PERCEIVED UTILIZATION OF TRAINING: 3.7

AVERAGE NUMBER OF TASKS PERFORMED: 54

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	26
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	24
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	15
P PERFORMING AIR CONDITIONING FUNCTIONS	12

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
Q665 PERFORM LEAKAGE CHECK OF BLEED AIR DUCTING SYSTEMS OR COMPONENTS	100
H276 REMOVE OR INSTALL AIRCRAFT LIQUID OXYGEN SYSTEMS COMPONENTS SUCH AS CONVERTERS	100
I319 INSPECT PRESSURIZED COMPARTMENTS FOR LEAKAGE	100
I320 PERFORM LEAKAGE CHECK OF CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	100
Q666 PERFORM LEAKAGE CHECK OF ENGINE BLEED AIR ANTI-ICING SYSTEMS OR COMPONENTS	83

REPRESENTATIVE AIRCRAFT MAINTAINED

B-52D,F,G KC-135

GROUP ID NUMBER AND TITLE: GRP096, OXYGEN AND FIRE EXTINGUISHING SYSTEMS
SPECIALISTS

PERCENT OF SAMPLE: .5

MAJOR COMMAND DISTRIBUTION: AFSC 17% MAC 67% TAC 17%

LOCATION: CONUS 100%

DAFSC DISTRIBUTION: 42331 (17%), 42351 (83%)

AVERAGE GRADE: 3.3

AMOUNT OF SUPERVISION: NONE

EXPRESSED JOB INTEREST: 4.7

PERCEIVED UTILIZATION OF TALENTS: 3.2

PERCEIVED UTILIZATION OF TRAINING: 2.5

AVERAGE NUMBER OF TASKS PERFORMED: 110

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	25
F MAINTAINING AIRCRAFT FIRE EXTINGUISHING SYSTEMS	23
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	13
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	11

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
H276 REMOVE OR INSTALL AIRCRAFT LIQUID OXYGEN SYSTEM COMPONENTS SUCH AS CONVERTERS	100
H261 PERFORM OPERATIONAL CHECK OF OXYGEN REGULATORS	100
F132 INSTALL FIRE EXTINGUISHING SYSTEM COMPONENTS	100
F148 REMOVE OR INSTALL FIXED FIRE EXTINGUISHING	100
H249 PERFORM LEAKAGE CHECK OF LOW PRESSURE GASEOUS OXYGEN SYSTEMS OR COMPONENTS	100

REPRESENTATIVE AIRCRAFT MAINTAINED

C-5 C-141 F-4C,D,E

GROUP ID NUMBER AND TITLE: GRP176, AIR CONDITIONING, HEATING, AUXILIARY
AIR, AND OXYGEN SYSTEMS SPECIALISTS

PERCENT OF SAMPLE: .6

MAJOR COMMAND DISTRIBUTION: ADC 100%

LOCATION: CONUS 100%

DAFSC DISTRIBUTION: 42351 (71%), 42371 (29%)

AVERAGE GRADE: 2.5 (43% DID NOT REPLY)

AMOUNT OF SUPERVISION: TWO PEOPLE SUPERVISE AN AVERAGE OF THREE PEOPLE
EACH

EXPRESSED JOB INTEREST: 4.5

PERCEIVED UTILIZATION OF TALENTS: 3.3

PERCEIVED UTILIZATION OF TRAINING: 3.3

AVERAGE NUMBER OF TASKS PERFORMED: 107

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
P PERFORMING AIR CONDITIONING FUNCTIONS	20
L MAINTAINING AUXILIARY AIR SYSTEMS	14
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	14
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	9

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
E118 PERFORM LEAKAGE CHECK OF AIRCRAFT COMBUSTION HEATER SYSTEMS	100
L445 REMOVE OR INSTALL AIRCRAFT EXPANSION COOLING AIR CONDITIONING SYSTEMS OR COMPONENTS	100
L429 PERFORM OPERATIONAL CHECK OF ENGINE DRIVEN ENVIRONMENTAL COMPRESSORS	100
E124 TROUBLESHOOT AIRCRAFT COMBUSTION HEATER SYSTEMS OR COMPONENTS	100
P625 REMOVE OR INSTALL CABIN OR CARGO AIR CONDITIONING SYSTEMS OR COMPONENTS	100

REPRESENTATIVE AIRCRAFT MAINTAINED

EC-121T

GROUP ID NUMBER AND TITLE: GRP166, C-5 ATM AND FIRE EXTINGUISHING SYSTEMS SPECIALISTS

PERCENT OF SAMPLE: .5

MAJOR COMMAND DISTRIBUTION: MAC 100%

LOCATION: CONUS 100%

DAFSC DISTRIBUTION: 42351 (100%)

AVERAGE GRADE: 2.6 (17% DID NOT REPLY)

AMOUNT OF SUPERVISION: ONE PERSON SUPERVISES TWO PEOPLE

EXPRESSED JOB INTEREST: 5.2

PERCEIVED UTILIZATION OF TALENTS: 3.3

PERCEIVED UTILIZATION OF TRAINING: 3.8

AVERAGE NUMBER OF TASKS PERFORMED: 73

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	22
F MAINTAINING AIRCRAFT FIRE EXTINGUISHING SYSTEMS	15
K MAINTAINING AIR TURBINE MOTORS (ATM)	14
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	13

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
K399 TROUBLESHOOT ATM OR CONTROL DEVICES	100
K398 REMOVE ATM OR CONTROL DEVICES	100
K395 PERFORM OPERATIONAL CHECK OF ATM OR CONTROL DEVICES	100
F147 REMOVE OR INSTALL FIRE SUPPRESSION SYSTEM COMPONENTS	100
F132 INSTALL FIRE EXTINGUISHING SYSTEM COMPONENTS	100

REPRESENTATIVE AIRCRAFT MAINTAINED

C-5

GROUP ID NUMBER AND TITLE: GRP079, OXYGEN SYSTEM SPECIALISTS

PERCENT OF SAMPLE: .5

MAJOR COMMAND DISTRIBUTION: TAC 80% USAF 20%

LOCATION: CONUS 80% OVERSEAS 20%

DAFSC DISTRIBUTION: 42331 (40%), 42351 (60%)

AVERAGE GRADE: 1.6 (40% DID NOT REPLY)

AMOUNT OF SUPERVISION: NONE

EXPRESSED JOB INTEREST: 4.8

PERCEIVED UTILIZATION OF TALENTS: 3.6

PERCEIVED UTILIZATION OF TRAINING: 3.4

AVERAGE NUMBER OF TASKS PERFORMED: 55

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
H MAINTAINING AIRCRAFT OXYGEN SYSTEMS	21
R PERFORMING GENERAL SHOP MAINTENANCE	18
I MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS	14
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	11

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
G209 REMOVE OR INSTALL BOUNDARY LAYER AIR CONTROL SYSTEM COMPONENTS	100
H284 REMOVE OR INSTALL OXYGEN REGULATORS	100
I320 PERFORM LEAKAGE CHECK OF CABIN PRESSURIZATION SYSTEMS OR COMPONENTS	100
H252 PERFORM LEAKAGE CHECK OF OXYGEN REGULATORS	80
I321 PERFORM LEAKAGE CHECK OF CANOPY SEAL PRESSURIZATION SYSTEMS OR COMPONENTS	80

REPRESENTATIVE AIRCRAFT MAINTAINED

F-4C,D,E F-15 T-33

GROUP ID NUMBER AND TITLE: GRP029, APPRENTICES AND BLEED AIR DISTRIBUTION SPECIALISTS

PERCENT OF SAMPLE: 1.5

MAJOR COMMAND DISTRIBUTION: ADC 13% AFSC 6% MAC 31% SAC 31%
TAC 13% USAF 6%

LOCATION: CONUS 88% OVERSEAS 12%

DAFSC DISTRIBUTION: 42331 (25%), 42351 (69%), 42371 (6%)

AVERAGE GRADE: 3.1 (6% DID NOT REPLY)

AMOUNT OF SUPERVISION: ONE PERSON SUPERVISES THREE PEOPLE

EXPRESSED JOB INTEREST: 2.8

PERCEIVED UTILIZATION OF TALENTS: 2.0

PERCEIVED UTILIZATION OF TRAINING: 2.8

AVERAGE NUMBER OF TASKS PERFORMED: 39

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
R PERFORMING GENERAL SHOP MAINTENANCE	34
Q PERFORMING BLEED AIR DISTRIBUTION SYSTEM FUNCTIONS	26
P PERFORMING AIR CONDITIONING SYSTEM FUNCTIONS	8

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
R733 WASH OR MOP FLOORS	94
R704 BUFF FLOORS	94
Q688 REMOVE OR INSTALL BLEED AIR DUCTING SYSTEMS OR COMPONENTS	75
Q685 REMOVE OR INSTALL AIRCRAFT ENVIRONMENTAL DUCTING SYSTEMS	63
R711 PACK OR UNPACK EQUIPMENT	56

REPRESENTATIVE AIRCRAFT MAINTAINED

C-5 FB-111 KC-135

GROUP ID NUMBER AND TITLE: GRP149, SECTION NCOIC'S

PERCENT OF SAMPLE: 4.3

MAJOR COMMAND DISTRIBUTION: ADC 6% AFSC 2% ATC 11% MAC 26%
PACAF 4% SAC 13% TAC 30% USAF 6%
OTHER 2%

LOCATION: CONUS 89% OVERSEAS 11%

DAFSC DISTRIBUTION: 42371 (77%), 42396 (19%), NO REPLY (4%)

AVERAGE GRADE: 7.0 (79% DID NOT RESPOND)

AMOUNT OF SUPERVISION: FORTY-SEVEN PEOPLE SUPERVISE AN AVERAGE OF NINE PEOPLE EACH

EXPRESSED JOB INTEREST: 4.8

PERCEIVED UTILIZATION OF TALENTS: 4.2

PERCEIVED UTILIZATION OF TRAINING: 4.3

AVERAGE NUMBER OF TASKS PERFORMED: 92

TIME SPENT ON DUTIES:

DUTY

AVERAGE PERCENT TIME
SPENT BY ALL MEMBERS

B DIRECTING AND IMPLEMENTING	30
C INSPECTING AND EVALUATING	22
A ORGANIZING AND PLANNING	21
D TRAINING	7

FIVE REPRESENTATIVE TASKS:

TASK

PERCENT MEMBERS
PERFORMING

C76 EVALUATE PERFORMANCE OF SUBORDINATES	98
B39 COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS	96
A24 PLAN OR SCHEDULE WORK ASSIGNMENTS	94
B62 REVIEW MAINTENANCE DATA COLLECTION RECORD FORMS (AFTO FORM 349)	91
B35 CONTROL WORK FLOW	87

REPRESENTATIVE AIRCRAFT MAINTAINED

C-5	C-120E	C-141
F-4C,D,E	F-111A,E	KC-135
T-33	T-39	

GROUP ID NUMBER AND TITLE: GRP169, TECHNICAL SCHOOL INSTRUCTOR/SUPERVISORS

PERCENT OF SAMPLE: .8

MAJOR COMMAND DISTRIBUTION: ATC 78% MAC 11% TAC 11%

LOCATION: CONUS 89% OVERSEAS 11%

DAFSC DISTRIBUTION: 42371 (100%)

AVERAGE GRADE: 6.0

AMOUNT OF SUPERVISION: FIVE PEOPLE SUPERVISE AN AVERAGE OF SEVEN PEOPLE EACH

EXPRESSED JOB INTEREST: 5.4

PERCEIVED UTILIZATION OF TALENTS: 3.6

PERCEIVED UTILIZATION OF TRAINING: 3.7

AVERAGE NUMBER OF TASKS PERFORMED: 76

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
D TRAINING	37
B DIRECTING AND IMPLEMENTING	24
A ORGANIZING AND PLANNING	19

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
D103 DEVELOP COURSE CURRICULAR, PLANS OF INSTRUCTION (POI) OR SPECIALTY TRAINING STANDARDS (STS)	100
D111 PREPARE LESSON PLANS	100
D101 DESIGN OR CONSTRUCT TRAINING AIDS	100
B44 DRAFT CORRESPONDENCE	89
A24 PLAN OR SCHEDULE WORK ASSIGNMENTS	89

GROUP ID NUMBER AND TITLE: GRP155, ENVIRONMENTAL TESTING AND DEVELOPMENT
TECHNICIANS

PERCENT OF SAMPLE: .5

MAJOR COMMAND DISTRIBUTION: AFSC 17% ATC 17% PACAF 17% TAC 50%

LOCATION: CONUS 83% OVERSEAS 17%

DAFSC DISTRIBUTION: 42371 (83%), 42396 (17%)

AVERAGE GRADE: 7.0 (83% DID NOT REPLY)

AMOUNT OF SUPERVISION: THREE PEOPLE SUPERVISE AN AVERAGE OF FOUR PEOPLE
EACH

EXPRESSED JOB INTEREST: 6.5

PERCEIVED UTILIZATION OF TALENTS: 5.3

PERCEIVED UTILIZATION OF TRAINING: 5.0

AVERAGE NUMBER OF TASKS PERFORMED: 30

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
A ORGANIZING AND PLANNING	37
C INSPECTING AND EVALUATING	30
B DIRECTING AND IMPLEMENTING	28

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
A1 CHECK REPORTS TO DETERMINE METHOD FOR IMPROVING PROCEDURES	100
C92 WRITE STAFF STUDIES, SURVEYS OR SPECIAL REPORTS	100
A5 DESIGN METHODS TO IMPROVE MAINTENANCE PROCEDURES	100
A15 ESTABLISH OPERATIONAL PROCEDURES	83
B59 PREPARE MAINTENANCE REPORTS	67

REPRESENTATIVE AIRCRAFT MAINTAINED

F-4C,D F-15 OTHER THAN THOSE LISTED IN SURVEY

GROUP ID NUMBER AND TITLE: GRP141, TECHNICAL SCHOOL INSTRUCTORS

PERCENT OF SAMPLE: 1.4

MAJOR COMMAND DISTRIBUTION: ATC 100%

LOCATION: CONUS 100%

DAFSC DISTRIBUTION: 42351 (53%), 42371 (47%)

AVERAGE GRADE: 4.0 (53% DID NOT REPLY)

AMOUNT OF SUPERVISION: TWO PEOPLE SUPERVISE AN AVERAGE OF 10 PEOPLE EACH

EXPRESSED JOB INTEREST: 5.3

PERCEIVED UTILIZATION OF TALENTS: 4.1

PERCEIVED UTILIZATION OF TRAINING: 4.4

AVERAGE NUMBER OF TASKS PERFORMED: 22

TIME SPENT ON DUTIES:

DUTY

AVERAGE PERCENT TIME
SPENT BY ALL MEMBERS

D TRAINING
B DIRECTING AND IMPLEMENTING

75
9

FIVE REPRESENTATIVE TASKS:

TASK

PERCENT MEMBERS
PERFORMING

D111 PREPARE LESSON PLANS
D93 ADMINISTER OR SCORE TESTS
D100 DEMONSTRATE OPERATION OF EQUIPMENT
D98 CONSTRUCT TESTS
D112 PREPARE TRAINING AIDS

100
100
100
93
80